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Damon James

# Numbers to one million

- Write each of the following in **numerals**:
  - five hundred and twenty-one thousand, seven hundred and two \_\_\_\_\_
  - nine hundred thousand, five hundred and seventy-six \_\_\_\_\_
  - two hundred and fifty thousand, eight hundred and twenty \_\_\_\_\_
  - six hundred and eleven thousand, four hundred and sixty-five \_\_\_\_\_
  - one hundred and eight thousand, two hundred and thirty-nine \_\_\_\_\_
  - ninety-five thousand, eight hundred and ninety-one \_\_\_\_\_

- Write each of the numbers from question 1 as figures in the **place value chart**:

	HTh	TTh	Th	H	T	U
a						
b						
c						
d						
e						
f						

- Write the **value** of each of the underlined digits:
  - 617 482 \_\_\_\_\_      b 987 056 \_\_\_\_\_
  - 732 517 \_\_\_\_\_      d 468 190 \_\_\_\_\_
  - 875 215 \_\_\_\_\_      f 104 621 \_\_\_\_\_

- Complete each of the **number series**:
  - 458 957, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 450 957
  - 742 015, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 742 415
  - 907 116, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 907 156
  - 842 105, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 882 105
  - 123 467, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 523 467
  - 821 046, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 861 046

- Write seven hundred and ninety-eight thousand, four hundred and sixty-two in **numerals**.  
\_\_\_\_\_

- Write seven hundred and ninety-eight thousand, four hundred and sixty-two in figures in the **place value chart**:

HTh	TTh	Th	H	T	U

- Write the **value** of the underlined digit in 107 946 \_\_\_\_\_
- Complete the **number series**:  
110 724, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 110 764
- Write the following number in **words**:  
110 793 \_\_\_\_\_

# Place value

- Draw the beads on the **abacus** to represent each of the following numbers:

a		b		c	
	721 046		117 493		248 321
c		d		f	
	401 091		876 117		942 000

- Write the numbers of the place value chart in **words**:

	HTh	TTh	Th	H	T	U	a
a		8	0	4	1	1	_____
b		9	0	0	0	0	_____
c	1	7	0	2	4	1	_____
d	9	9	8	6	4	2	_____
e	3	8	4	0	6	1	_____
f	8	7	0	4	0	0	_____

- Use **< or >** to complete the number statements:
  - 48 169  49 102
  - 710 385  79 041
  - 87 946  3249
  - 107 259  110 300
  - 4246  9872
  - 871 104  872 106

- Use **< or >** to complete the number statements:
  - 48 169  49 102
  - 710 385  79 041
  - 87 946  3249
  - 107 259  110 300
  - 4246  9872
  - 871 104  872 106

- Match** the expressions with the numerical information:
 

a	slightly over nineteen thousand	51 010
b	approximately two hundred thousand	24 879
c	roughly fifty thousand	456 285
d	slightly less than ninety thousand	198 921
e	almost twenty-five thousand	19 221
f	more than four hundred and fifty thousand	89 270

- Draw the beads to show 871 960 on the **abacus**:

- Write the number of the place chart in **words**:  

HTh	TTh	Th	H	T	U
2	7	0	8	5	0

 \_\_\_\_\_

- Use **< or >** to complete the number statement:  
231 805  241805

- Match** the expression with the numerical value:  
almost thirty-two thousand  
31 795    302 176    39 821    320 985

- How many **thousands** are there in each of the following numbers?
  - 4689 \_\_\_\_\_
  - 23 921 \_\_\_\_\_
  - 204 307 \_\_\_\_\_
  - 219 850 \_\_\_\_\_

# Numbers greater than one million

- Write the **value** of the 5 in each of the following:
  - 1 072 315 \_\_\_\_\_
  - 5 162 409 \_\_\_\_\_
  - 9 875 211 \_\_\_\_\_
  - 4 573 429 \_\_\_\_\_
  - 1 115 216 \_\_\_\_\_
  - 1 050 943 \_\_\_\_\_
- Arrange each set of numbers in **ascending order**:
  - 1 243 819, 1 346 721, 1 308 925  
\_\_\_\_\_
  - 2 487 905, 2 711 809, 2 635 921  
\_\_\_\_\_
  - 4 246 385, 4 105 907, 4 365 111  
\_\_\_\_\_
  - 8 051 987, 7 621 505, 7 921 300  
\_\_\_\_\_
  - 5 296 837, 5 121 352, 5 021 486  
\_\_\_\_\_
  - 7 932 481, 6 842 859, 8 110 425  
\_\_\_\_\_
- Round each number to the **nearest million**:
  - 1 738 501 \_\_\_\_\_
  - 6 219 850 \_\_\_\_\_
  - 992 106 \_\_\_\_\_
  - 1 346 080 \_\_\_\_\_
  - 8 319 467 \_\_\_\_\_
  - 4 511 909 \_\_\_\_\_
- Write the **place value** of each of the underlined digits, then its **value** in the chart:
 





	Number	Place value	Total value
a	3 <u>9</u> 8 421		
b	8 710 4 <u>8</u> 6		
c	2 198 <u>7</u> 04		
d	3 94 <u>7</u> 825		
e	<u>2</u> 1 843 211		
f	4 <u>2</u> 7 806 921		
- Write the **value** of the 5 in 2 158 706: \_\_\_\_\_
- Arrange the set of numbers in **ascending order**:  
2 196 380, 2 085 921, 2 127 460  
\_\_\_\_\_
- Round 3 248 691 to the **nearest million**.  
\_\_\_\_\_
- Write the **place value** of the underlined digit, then its **total value** in the chart:
 

Number	Place value	Total value
1 <u>4</u> 38 216		
- Is each of the following numbers **closer to** 50 000 000 or 60 000 000?
  - 53 107 915 \_\_\_\_\_
  - 54 681 999 \_\_\_\_\_
  - 58 702 117 \_\_\_\_\_

# Number patterns (1)

- Complete each of the **number patterns**:
  - 4, 6, 8, \_\_\_\_\_, \_\_\_\_\_
  - 40, 60, 80, \_\_\_\_\_, \_\_\_\_\_
  - 109, 118, 127, \_\_\_\_\_, \_\_\_\_\_
  - 421, 411, 401, \_\_\_\_\_, \_\_\_\_\_
  - 4, 8, 16, \_\_\_\_\_, \_\_\_\_\_
  - 916, 904, 892, \_\_\_\_\_, \_\_\_\_\_
- Write the **rule** for each number pattern in question 1:
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
- Complete each of the following **tables**:
  - |         |    |    |    |   |   |
|---------|----|----|----|---|---|
| 1st No. | 4  | 5  | 6  | 7 | 8 |
| 2nd No. | 36 | 45 | 54 |   |   |
  - |         |    |    |    |    |    |
|---------|----|----|----|----|----|
| 1st No. | 26 | 36 | 46 | 56 | 66 |
| 2nd No. | 45 | 55 | 65 |    |    |
  - |         |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|
| 1st No. | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 |
| 2nd No. | 15  | 25  | 35  |     |     |
  - |         |    |    |     |    |    |
|---------|----|----|-----|----|----|
| 1st No. | 7  | 17 | 27  | 37 | 47 |
| 2nd No. | 35 | 85 | 135 |    |    |
  - |         |    |    |    |    |    |
|---------|----|----|----|----|----|
| 1st No. | 46 | 56 | 66 | 76 | 86 |
| 2nd No. | 38 | 48 | 58 |    |    |
  - |         |    |    |    |    |    |
|---------|----|----|----|----|----|
| 1st No. | 64 | 54 | 44 | 34 | 24 |
| 2nd No. | 80 | 70 | 60 |    |    |
- Write the **rule** which relates the second number to the first number for each of the number patterns in question 3.
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
- Complete the **number pattern**:  $6\frac{1}{4}, 8\frac{1}{2}, 10\frac{3}{4}, \dots$   
\_\_\_\_\_
- Write the **rule** for the number pattern in question 5:  
\_\_\_\_\_
- Complete the table:
 

1st No.	100	90	80	70	60
2nd No.	20	18	16		
- Write the **rule** for the number pattern in question 7.  
\_\_\_\_\_
- Look at the **square numbers**:
 

  - Write the **rule** to give the number of dots in each diagram. \_\_\_\_\_
  - What would be the **10th term** in the pattern?  
\_\_\_\_\_

## Expanding numbers

- Write the **numeral** for each of the following:
  - $100\ 000 + 40\ 000 + 2\ 000 + 500 + 60 + 1$  \_\_\_\_\_
  - $200\ 000 + 90\ 000 + 5\ 000 + 600 + 20 + 9$  \_\_\_\_\_
  - $400\ 000 + 50\ 000 + 3\ 000 + 700 + 80 + 5$  \_\_\_\_\_
  - $600\ 000 + 8\ 000 + 90 + 6$  \_\_\_\_\_
  - $800\ 000 + 70\ 000 + 800 + 7$  \_\_\_\_\_
  - $900\ 000 + 50\ 000 + 2\ 000 + 3$  \_\_\_\_\_
- Write each of the following in **expanded notation**:
  - 56 409 \_\_\_\_\_
  - 213 847 \_\_\_\_\_
  - 462 001 \_\_\_\_\_
  - 896 325 \_\_\_\_\_
  - 1 224 387 \_\_\_\_\_
  - 1 905 621 \_\_\_\_\_
- How many **tens** are there in each of the following?
  - 4 283 \_\_\_\_\_
  - 9 172 \_\_\_\_\_
  - 48 632 \_\_\_\_\_
  - 27 485 \_\_\_\_\_
  - 213 689 \_\_\_\_\_
  - 724 998 \_\_\_\_\_
- How many **thousands** are there in each of the following?
  - 4 639 \_\_\_\_\_
  - 21 486 \_\_\_\_\_
  - 92 327 \_\_\_\_\_
  - 847 986 \_\_\_\_\_
  - 123 428 \_\_\_\_\_
  - 1 428 376 \_\_\_\_\_
- Write  $400\ 000 + 20\ 000 + 9\ 000 + 20 + 6$  as a **numeral**.  
\_\_\_\_\_
- Write 4 632 589 in **expanded notation**.  
\_\_\_\_\_
- How many **tens** are there in 4 326 849?  
\_\_\_\_\_
- How many **thousands** are there in 468 725?  
\_\_\_\_\_
- Use **< or >** to make the statements true.
  - $4\ 320\ 146$    $4\ 000\ 000 + 300\ 000 + 20\ 000 + 1000 + 400 + 60$
  - $100\ 000 + 40 + 6 + 200 + 7000$   170 246

## Positive and negative numbers

- Order each set of numbers from **smallest to largest**:
  - 5, 10, 6, 7, 0, -1, 9, -3  
\_\_\_\_\_
  - 8, -2, -3, -7, 0, 1, 4, 2  
\_\_\_\_\_
  - 2, -5, -8, 10, 1, 5, -4, 0  
\_\_\_\_\_
  - 14, 13, -10, 0, -6, 1, 2  
\_\_\_\_\_
  - 10, -5, 0, 1, 3, 5, -4, -2  
\_\_\_\_\_
  - 4, 3, 2, 8, 0, -1, -3, 5  
\_\_\_\_\_
- Circle the **larger** number in each pair:
 

a 10, 4	b -1, 5
c 0, -5	d 11, -2
e -1, -5	f 0, -3
- Complete the **number sequences**:
  - 2, 4, 6, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
  - 0, 3, 6, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
  - 10, 8, 6, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
  - 5, 3, 1, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
  - 6, 3, 0, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
  - 2, 0, 2, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- Complete the following **equations**:
  - $1 - 3 =$  \_\_\_\_\_
  - $5 - 10 =$  \_\_\_\_\_
  - $-1 + 2 =$  \_\_\_\_\_
  - $-5 + 3 =$  \_\_\_\_\_
  - $-2 - 1 =$  \_\_\_\_\_
  - $-5 - 4 =$  \_\_\_\_\_
- Order the following from **smallest to largest**:  
-2, 0, 5, -3, -10, 2, 10, -7  
\_\_\_\_\_
- Circle the **larger** number: -5, -2
- Complete the **number sequence**:  
6, 2, -2, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- Complete:**  $5 - 4 =$  \_\_\_\_\_
- Draw a **number line** and add the following:  
 $-3, 0, -1\frac{1}{2}, 0.5, 4, 2\frac{1}{4}$

# Addition review

- 1 Complete:
- a  $50 + 60 =$  \_\_\_\_\_
  - b  $90 + 30 =$  \_\_\_\_\_
  - c  $40 + 80 =$  \_\_\_\_\_
  - d  $700 + 300 =$  \_\_\_\_\_
  - e  $400 + 500 =$  \_\_\_\_\_
  - f  $700 + 800 =$  \_\_\_\_\_

- 2 Complete:
- a  $129 + 66 =$  \_\_\_\_\_
  - b  $347 + 47 =$  \_\_\_\_\_
  - c  $876 + 37 =$  \_\_\_\_\_
  - d  $247 + 38 =$  \_\_\_\_\_
  - e  $164 + 29 =$  \_\_\_\_\_
  - f  $293 + 58 =$  \_\_\_\_\_

- 3 Give an **estimate** for each of the following by first rounding each number to the **nearest hundred**:
- a  $425 + 369$  \_\_\_\_\_
  - b  $497 + 268$  \_\_\_\_\_
  - c  $876 + 281$  \_\_\_\_\_
  - d  $979 + 319$  \_\_\_\_\_
  - e  $1379 + 486$  \_\_\_\_\_
  - f  $2365 + 898$  \_\_\_\_\_

- 4 Complete:
- |   |  |
|---|--|
| <p>a <math>\begin{array}{r} 487 \\ + 925 \\ \hline \end{array}</math></p> <p>c <math>\begin{array}{r} 4158 \\ + 4925 \\ \hline \end{array}</math></p> <p>e <math>\begin{array}{r} 4268 \\ + 3496 \\ \hline \end{array}</math></p> | <p>b <math>\begin{array}{r} 1176 \\ + 247 \\ \hline \end{array}</math></p> <p>d <math>\begin{array}{r} 8436 \\ + 5219 \\ \hline \end{array}</math></p> <p>f <math>\begin{array}{r} 5281 \\ + 2986 \\ \hline \end{array}</math></p> |
|---|--|

5 Complete:  $4000 + 7000 =$  \_\_\_\_\_

6 Complete:  $187 + 298 =$  \_\_\_\_\_

7 Give an **estimate** by first rounding each number to the **nearest hundred**:  
 $4263 + 107$  \_\_\_\_\_

8 Complete:  $\begin{array}{r} 2147 \\ + 8736 \\ \hline \end{array}$

9 Two country towns were merged together to form one. If the two towns had populations of 27 846 and 39 468, what was the **total** population of the new town?  
 \_\_\_\_\_

# Adding to 999 999

- 1 Complete:
- |  |  |  |
|--|--|--|
| <p>a <math>\begin{array}{r} 460 \\ 320 \\ + 980 \\ \hline \end{array}</math></p> <p>d <math>\begin{array}{r} 1248 \\ + 3687 \\ \hline \end{array}</math></p> | <p>b <math>\begin{array}{r} 147 \\ 820 \\ + 476 \\ \hline \end{array}</math></p> <p>e <math>\begin{array}{r} 4978 \\ + 8560 \\ \hline \end{array}</math></p> | <p>c <math>\begin{array}{r} 976 \\ 342 \\ + 897 \\ \hline \end{array}</math></p> <p>f <math>\begin{array}{r} 7856 \\ + 9278 \\ \hline \end{array}</math></p> |
|--|--|--|

- 2 Complete:
- |   |  |   |
|---|--|---|
| <p>a <math>\begin{array}{r} \\$46\,275 \\ + \\$12\,386 \\ \hline \end{array}</math></p> <p>d <math>\begin{array}{r} \\$86\,456 \\ + \\$12\,386 \\ \hline \end{array}</math></p> | <p>b <math>\begin{array}{r} \\$49\,325 \\ + \\$80\,652 \\ \hline \end{array}</math></p> <p>e <math>\begin{array}{r} \\$759\,704 \\ + \\$25\,629 \\ \hline \end{array}</math></p> | <p>c <math>\begin{array}{r} \\$561\,101 \\ + \\$299\,980 \\ \hline \end{array}</math></p> <p>f <math>\begin{array}{r} \\$124\,980 \\ + \\$893\,276 \\ \hline \end{array}</math></p> |
|---|--|---|

- 3 Give the **missing numbers** to complete the additions:
- |  |  |
|--|--|
| <p>a <math>\begin{array}{r} 35\ \square\ 6\ 4 \\ + 4\ 8\ \square\ 5 \\ \hline \square\ \square\ 4\ 0\ \square \end{array}</math></p> <p>c <math>\begin{array}{r} 1\ 0\ 7\ \square\ 3\ \square \\ + \square\ 6\ \square\ 1\ \square\ 7 \\ \hline 5\ \square\ 3\ 1\ 1\ 9 \end{array}</math></p> <p>e <math>\begin{array}{r} 3\ 2\ \square\ 1\ 8\ \square \\ + \square\ 6\ 2\ \square\ 7\ 3 \\ \hline 7\ \square\ 1\ 9\ \square\ 7 \end{array}</math></p> | <p>b <math>\begin{array}{r} 6\ 3\ 2\ \square\ \square\ \square \\ + 2\ 0\ 1\ 2\ 6\ 4 \\ \hline 8\ \square\ \square\ 2\ 5\ 0 \end{array}</math></p> <p>d <math>\begin{array}{r} 4\ 6\ \square\ 3\ 2\ \square \\ + 4\ \square\ 2\ \square\ \square\ 6 \\ \hline \square\ 9\ 0\ 0\ 6\ 2 \end{array}</math></p> <p>f <math>\begin{array}{r} \square\ 2\ \square\ 8\ \square\ 4 \\ + 2\ \square\ 6\ 4\ 3\ \square \\ \hline 8\ 8\ 4\ \square\ 9\ 1 \end{array}</math></p> |
|--|--|

- 4 Solve:
- a Over 3 years, Albert saved \$4621, \$3283 and \$2146. How much did Albert save **altogether**? \_\_\_\_\_
  - b On a cattle station, one paddock had 46 291 cattle and the other 39 472. How many cattle **altogether**? \_\_\_\_\_
  - c For a collect-a-cap competition, Year K – 2 collected 1249 caps, Year 3 – 4 1462 caps and Year 5 – 6 1739 caps. What was the **total** number of caps? \_\_\_\_\_
  - d During the school holidays, the Smiths travelled 925 km in the first week and 1476 km in the second. How far did the Smiths travel **altogether**? \_\_\_\_\_
  - e A house's first storey is 285 cm high, the second 329 cm. What is the **total** height of the house? \_\_\_\_\_
  - f There were 476 sheets of paper in one pile, 521 in a second and 479 in a third. What was the **total** number of pieces of paper? \_\_\_\_\_

5 Complete:  $\begin{array}{r} 789 \\ 248 \\ + 852 \\ \hline \end{array}$

6 Complete:  $\begin{array}{r} \$214\,386 \\ + \$728\,642 \\ \hline \end{array}$   $\begin{array}{r} 4\ \square\ 3\ 7\ 8\ \square \\ + \square\ 3\ 6\ \square\ 4\ 8 \\ \hline \end{array}$

7 Give the **missing numbers** to complete:  $\begin{array}{r} 9\ 9\ \square\ 6\ \square\ 2 \end{array}$

8 On a farm, there were 3 crates of avocados, 12 498 in one crate, 16 749 in a second and 24 925 in a third. What was the **total** number of avocados? \_\_\_\_\_

9 Complete:  $942\,100 + 38\,617 + 12\,496 + 10\,748$  \_\_\_\_\_



## Adding large numbers

1 Complete:

$$\begin{array}{r} \text{a} \quad 462\ 381 \\ \quad 942\ 117 \\ + \quad 107\ 437 \\ \hline \end{array} \quad \begin{array}{r} \text{b} \quad 849\ 106 \\ \quad 283\ 427 \\ + \quad 346\ 110 \\ \hline \end{array} \quad \begin{array}{r} \text{c} \quad 249\ 861 \\ \quad 248\ 105 \\ + \quad 624\ 177 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d} \quad 432\ 105 \\ \quad 869\ 117 \\ + \quad 348\ 052 \\ \hline \end{array} \quad \begin{array}{r} \text{e} \quad 406\ 109 \\ \quad 841\ 086 \\ + \quad 92\ 471 \\ \hline \end{array} \quad \begin{array}{r} \text{f} \quad 805\ 216 \\ \quad 34\ 975 \\ + \quad 98\ 647 \\ \hline \end{array}$$

2 Find:

$$\begin{array}{r} \text{a} \quad 140\ 421 \\ \quad 99\ 325 \\ + \quad 68\ 429 \\ \hline \end{array} \quad \begin{array}{r} \text{b} \quad 4\ 281\ 021 \\ \quad 468\ 391 \\ + \quad 1\ 486\ 342 \\ \hline \end{array} \quad \begin{array}{r} \text{c} \quad 486\ 325 \\ \quad 361\ 185 \\ + \quad 1\ 428\ 593 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d} \quad 3\ 846\ 000 \\ \quad 4\ 281\ 000 \\ + \quad 3\ 401\ 000 \\ \hline \end{array} \quad \begin{array}{r} \text{e} \quad 11\ 000\ 000 \\ \quad 4\ 960\ 000 \\ + \quad 1\ 423\ 000 \\ \hline \end{array} \quad \begin{array}{r} \text{f} \quad 840\ 000 \\ \quad 4\ 217\ 000 \\ + \quad 8\ 673\ 000 \\ \hline \end{array}$$

3 Find the total of:

- a \$426 831.50 and \$217 856.93 \_\_\_\_\_
- b \$1 024 309.25 and \$4 629 326.54 \_\_\_\_\_
- c \$5 029 859.98 and \$6 254 321.40 \_\_\_\_\_
- d \$1 500 450.10 and \$900 428.50 \_\_\_\_\_
- e \$4 362 107.50 and \$5 428 456.59 \_\_\_\_\_
- f \$9 752 321.05 and \$2 489 652.25 \_\_\_\_\_

4 Complete:

$$\begin{array}{r} \text{a} \quad \text{grams} \\ \quad 2\ 468 \\ \quad 3\ 179 \\ + \quad 48\ 561 \\ \hline \end{array} \quad \begin{array}{r} \text{b} \quad \text{centimetres} \\ \quad 4\ 980 \\ \quad 6\ 243 \\ + \quad 10\ 479 \\ \hline \end{array} \quad \begin{array}{r} \text{c} \quad \text{tonnes} \\ \quad 46\ 832 \\ \quad 10\ 976 \\ + \quad 27\ 486 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d} \quad \text{litres} \\ \quad 2478 \\ \quad 3956 \\ + \quad 9875 \\ \hline \end{array} \quad \begin{array}{r} \text{e} \quad \text{kilometres} \\ \quad 12\ 479 \\ \quad 15\ 862 \\ + \quad 10\ 972 \\ \hline \end{array} \quad \begin{array}{r} \text{f} \quad \text{hectares} \\ \quad 461\ 079 \\ \quad 213\ 461 \\ + \quad 874\ 982 \\ \hline \end{array}$$

5 Complete:

$$\begin{array}{r} 925\ 486 \\ 106\ 432 \\ + 119\ 751 \\ \hline \end{array}$$

6 Find:

$$\begin{array}{r} 1\ 428\ 326 \\ + 9\ 864\ 102 \\ \hline \end{array}$$

7 Find the total of:  
\$1 073 426.90 and \$2 487 112.45 \_\_\_\_\_

8 Complete:

$$\begin{array}{r} 4263 \\ 1079 \\ + 1148 \\ \hline \end{array}$$

9 Jorge bought a new car for \$29 990 but added air conditioning for \$1755, a CD player for \$875 and a sun roof for \$2465. What was the total cost of the car?

## Subtraction review

1 Complete:

$$\begin{array}{r} \text{a} \quad 465 \\ \quad - 38 \\ \hline \end{array} \quad \begin{array}{r} \text{b} \quad 890 \\ \quad - 56 \\ \hline \end{array} \quad \begin{array}{r} \text{c} \quad 462 \\ \quad - 88 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d} \quad 436 \\ \quad - 175 \\ \hline \end{array} \quad \begin{array}{r} \text{e} \quad 248 \\ \quad - 109 \\ \hline \end{array} \quad \begin{array}{r} \text{f} \quad 756 \\ \quad - 237 \\ \hline \end{array}$$

2 Find:

$$\begin{array}{r} \text{a} \quad 6109 \\ \quad - 1487 \\ \hline \end{array} \quad \begin{array}{r} \text{b} \quad 3501 \\ \quad - 2617 \\ \hline \end{array} \quad \begin{array}{r} \text{c} \quad 4096 \\ \quad - 3825 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d} \quad 4862 \\ \quad - 1975 \\ \hline \end{array} \quad \begin{array}{r} \text{e} \quad 5497 \\ \quad - 3859 \\ \hline \end{array} \quad \begin{array}{r} \text{f} \quad 2471 \\ \quad - 1865 \\ \hline \end{array}$$

3 Fill in the missing boxes:

$$\begin{array}{r} \text{a} \quad 5\ 6\ 1\ 7 \\ \quad - 4\ \square\ 1\ \square \\ \hline 1\ 3\ \square\ 4 \end{array} \quad \begin{array}{r} \text{b} \quad 5\ 1\ \square\ 4 \\ \quad - 3\ \square\ 2\ 7 \\ \hline \square\ 0\ 3\ \square \end{array} \quad \begin{array}{r} \text{c} \quad 9\ 5\ \square\ 1 \\ \quad - \square\ \square\ 7\ 2 \\ \hline 6\ 8\ 6\ \square \end{array}$$

$$\begin{array}{r} \text{d} \quad 8\ 7\ \square\ 3 \\ \quad - \square\ 4\ 0\ \square \\ \hline 6\ \square\ 5\ 5 \end{array} \quad \begin{array}{r} \text{e} \quad 8\ \square\ 7\ 0 \\ \quad - 7\ \square\ 3 \\ \hline \square\ 8\ 4\ \square \end{array} \quad \begin{array}{r} \text{f} \quad 8\ \square\ 0\ \square \\ \quad - \square\ 0\ \square\ 4 \\ \hline 1\ 1\ 9\ 6 \end{array}$$

4 Find the difference between:

- a 4706 and 2305 \_\_\_\_\_
- b 8975 and 1723 \_\_\_\_\_
- c 7506 and 1986 \_\_\_\_\_
- d 5630 and 146 \_\_\_\_\_
- e 7400 and 6558 \_\_\_\_\_
- f 3248 and 967 \_\_\_\_\_

5 Complete:

$$\begin{array}{r} 793 \\ - 246 \\ \hline \end{array}$$

6 Find:

$$\begin{array}{r} 4018 \\ - 1463 \\ \hline \end{array}$$

7 Fill in the missing boxes:

$$\begin{array}{r} 4\ 0\ \square\ 6 \\ - \square\ \square\ 2\ \square \\ \hline 2\ 6\ 9\ 1 \end{array}$$

8 Find the difference between 3217 and 1094.

9 If an item was bought for \$2385 and sold for \$3192, what was the profit made on the item?

## Mental strategies for subtraction

- 1 Find:
- a  $270 - 160 =$  \_\_\_\_\_
  - b  $370 - 80 =$  \_\_\_\_\_
  - c  $450 - 260 =$  \_\_\_\_\_
  - d  $540 - 360 =$  \_\_\_\_\_
  - e  $630 - 470 =$  \_\_\_\_\_
  - f  $790 - 650 =$  \_\_\_\_\_

- 2 Find the **difference** between:
- a 475 and 328 \_\_\_\_\_
  - b 252 and 214 \_\_\_\_\_
  - c 344 and 486 \_\_\_\_\_
  - d 284 and 464 \_\_\_\_\_
  - e 719 and 527 \_\_\_\_\_
  - f 825 and 377 \_\_\_\_\_

- 3 Complete:
- |  |  |
|--|--|
| <p>a <math display="block">\begin{array}{r} 6000 \\ - 486 \\ \hline \end{array}</math></p> <p>c <math display="block">\begin{array}{r} 3000 \\ - 109 \\ \hline \end{array}</math></p> <p>e <math display="block">\begin{array}{r} 9000 \\ - 895 \\ \hline \end{array}</math></p> | <p>b <math display="block">\begin{array}{r} 8000 \\ - 798 \\ \hline \end{array}</math></p> <p>d <math display="block">\begin{array}{r} 4000 \\ - 527 \\ \hline \end{array}</math></p> <p>f <math display="block">\begin{array}{r} 5000 \\ - 211 \\ \hline \end{array}</math></p> |
|--|--|

- 4 Complete:
- a  $75 - 39 =$  \_\_\_\_\_
  - b  $157 - 28 =$  \_\_\_\_\_
  - c  $196 - 49 =$  \_\_\_\_\_
  - d  $187 - 58 =$  \_\_\_\_\_
  - e  $156 - 77 =$  \_\_\_\_\_
  - f  $93 - 49 =$  \_\_\_\_\_

- 5 Find:  $470 - 180 =$  \_\_\_\_\_

- 6 Find the **difference** between 575 and 329: \_\_\_\_\_

- 7 Complete: 
$$\begin{array}{r} 7000 \\ - 627 \\ \hline \end{array}$$

- 8 Complete:  $292 - 48 =$  \_\_\_\_\_

- 9 Jordan has a collection of 256 football cards, but he sold 79 of them. How many cards did he **have left**?  
\_\_\_\_\_

## Rounding numbers

- 1 Round each of the following to the **nearest ten**:
- a 47 \_\_\_\_\_
  - b 63 \_\_\_\_\_
  - c 98 \_\_\_\_\_
  - d 114 \_\_\_\_\_
  - e 256 \_\_\_\_\_
  - f 486 \_\_\_\_\_
- 2 Round each of the following to the **nearest hundred**:
- a 106 \_\_\_\_\_
  - b 398 \_\_\_\_\_
  - c 860 \_\_\_\_\_
  - d 1268 \_\_\_\_\_
  - e 4986 \_\_\_\_\_
  - f 4507 \_\_\_\_\_
- 3 Round each of the following to the **nearest thousand**:
- a 986 \_\_\_\_\_
  - b 1 046 \_\_\_\_\_
  - c 2 793 \_\_\_\_\_
  - d 17 600 \_\_\_\_\_
  - e 29 826 \_\_\_\_\_
  - f 126 108 \_\_\_\_\_

- 4 Estimate an answer to each of the following by first rounding each number to the **nearest thousand**:

	Question	Rounded	Estimate
a	$5778 + 3697$		
b	$2866 + 3105$		
c	$1249 + 2958$		
d	$35\,977 + 6104$		
e	$55\,394 + 5106$		
f	$9999 + 27\,108$		

- 5 Round 732 to the **nearest ten**. \_\_\_\_\_
- 6 Round 52 817 to the **nearest hundred**. \_\_\_\_\_
- 7 Round 135 463 to the **nearest thousand**. \_\_\_\_\_
- 8 Estimate the answer, by first rounding each number to the **nearest thousand**.

Question	Rounded	Estimate
$4687 + 3721$		

- 9 k is used to represent 1000 in **large numbers**. For example,  $7000 = 7\text{ k}$ . Write each of the following using k as an abbreviation:
- a 9000 \_\_\_\_\_
  - b 14 000 \_\_\_\_\_
  - c 21 000 \_\_\_\_\_
  - d 51 000 \_\_\_\_\_
  - e 37 000 \_\_\_\_\_
  - f 85 000 \_\_\_\_\_

## Subtraction to 999 999

1 Complete:

a  $\begin{array}{r} 46\ 321 \\ - 9\ 860 \\ \hline \end{array}$       b  $\begin{array}{r} 52\ 187 \\ - 7\ 950 \\ \hline \end{array}$       c  $\begin{array}{r} 46\ 379 \\ - 8\ 660 \\ \hline \end{array}$

d  $\begin{array}{r} 86\ 000 \\ - 51\ 360 \\ \hline \end{array}$       e  $\begin{array}{r} 39\ 870 \\ - 14\ 600 \\ \hline \end{array}$       f  $\begin{array}{r} 22\ 100 \\ - 17\ 850 \\ \hline \end{array}$

2 Estimate the answer to each question by rounding each number to the nearest thousand.

a  $\begin{array}{r} 46\ 785 \\ - 21\ 391 \\ \hline \end{array}$       b  $\begin{array}{r} 83\ 472 \\ - 67\ 957 \\ \hline \end{array}$       c  $\begin{array}{r} 92\ 110 \\ - 42\ 689 \\ \hline \end{array}$

d  $\begin{array}{r} 66\ 852 \\ - 41\ 461 \\ \hline \end{array}$       e  $\begin{array}{r} 59\ 850 \\ - 17\ 082 \\ \hline \end{array}$       f  $\begin{array}{r} 43\ 281 \\ - 10\ 925 \\ \hline \end{array}$

3 Complete:

a kilograms      b metres      c litres

$\begin{array}{r} 875\ 926 \\ - 321\ 520 \\ \hline \end{array}$        $\begin{array}{r} 491\ 253 \\ - 124\ 685 \\ \hline \end{array}$        $\begin{array}{r} 555\ 998 \\ - 432\ 565 \\ \hline \end{array}$

d tonnes      e hectares      f centimetres

$\begin{array}{r} 147\ 973 \\ - 98\ 699 \\ \hline \end{array}$        $\begin{array}{r} 421\ 046 \\ - 274\ 819 \\ \hline \end{array}$        $\begin{array}{r} 875\ 869 \\ - 423\ 590 \\ \hline \end{array}$

4 Find the difference between:

- a 924 685 and 143 847 \_\_\_\_\_  
 b 120 801 and 462 398 \_\_\_\_\_  
 c 502 196 and 475 230 \_\_\_\_\_  
 d 421 114 and 673 895 \_\_\_\_\_  
 e 794 503 and 306 040 \_\_\_\_\_  
 f 526 807 and 304 752 \_\_\_\_\_

5 Complete:  $\begin{array}{r} 17\ 849 \\ - 9\ 211 \\ \hline \end{array}$

6 Estimate the answer by rounding each number to the nearest thousand.

$\begin{array}{r} 63\ 851 \\ - 39\ 574 \\ \hline \end{array}$

7 Complete:  $\begin{array}{r} 846\ 217\ \text{mm} \\ - 783\ 504\ \text{mm} \\ \hline \end{array}$

8 Find the difference between 810 432 and 268 009.

\_\_\_\_\_

9 Write a word problem that is a subtraction question and gives the answer 221 635.

\_\_\_\_\_

## Subtracting large numbers

1 Complete:

a  $\begin{array}{r} 1\ 683\ 000 \\ - 429\ 000 \\ \hline \end{array}$       b  $\begin{array}{r} 7\ 624\ 000 \\ - 938\ 000 \\ \hline \end{array}$       c  $\begin{array}{r} 5\ 280\ 000 \\ - 1\ 752\ 000 \\ \hline \end{array}$

d  $\begin{array}{r} 4\ 630\ 000 \\ - 2\ 741\ 000 \\ \hline \end{array}$       e  $\begin{array}{r} 8\ 049\ 000 \\ - 3\ 520\ 000 \\ \hline \end{array}$       f  $\begin{array}{r} 1\ 946\ 000 \\ - 897\ 000 \\ \hline \end{array}$

2 Complete:

a  $\begin{array}{r} \$4\ 527\ 930 \\ - \$604\ 705 \\ \hline \end{array}$       b  $\begin{array}{r} \$3\ 684\ 900 \\ - \$758\ 610 \\ \hline \end{array}$       c  $\begin{array}{r} \$1\ 104\ 365 \\ - \$587\ 112 \\ \hline \end{array}$

d  $\begin{array}{r} \$6\ 894\ 170 \\ - \$2\ 431\ 856 \\ \hline \end{array}$       e  $\begin{array}{r} \$4\ 387\ 105 \\ - \$2\ 416\ 801 \\ \hline \end{array}$       f  $\begin{array}{r} \$11\ 059\ 528 \\ - \$9\ 237\ 000 \\ \hline \end{array}$

3 The area of each state and territory (km<sup>2</sup>) is given below.

Tas.	Vic.	ACT	NSW
67 897	227 516	2330	801 431
Qld	SA	WA	NT
1 727 200	984 381	2 525 500	1 356 176

Find the difference in area between:

- a Tas. and Vic. \_\_\_\_\_      b NSW and SA \_\_\_\_\_  
 c WA and SA \_\_\_\_\_      d NT and ACT \_\_\_\_\_  
 e Qld and WA \_\_\_\_\_      e NSW and NT \_\_\_\_\_

4 Find:

- a 672 589 kg minus 361 876 kg \_\_\_\_\_  
 b 120 479 L subtract 109 326 L \_\_\_\_\_  
 c 473 981 tonnes less 98 756 tonnes \_\_\_\_\_  
 d the difference between \$879 352 and \$1 462 108 \_\_\_\_\_  
 e 719 430 cm less 87 956 cm \_\_\_\_\_  
 f 1 426 398 g take away 721 085 g \_\_\_\_\_

5 Complete:  $\begin{array}{r} 2\ 468\ 000 \\ - 1\ 987\ 000 \\ \hline \end{array}$

6 Complete:  $\begin{array}{r} \$3\ 219\ 856 \\ - \$1\ 759\ 061 \\ \hline \end{array}$

7 Find the difference in area between Vic. and NSW.

\_\_\_\_\_

8 Find 21 763 805 L less 9 428 119 L

\_\_\_\_\_

9 What is the greatest difference in area between two states or territories?

\_\_\_\_\_



### Estimation

1 Estimate each of the additions by first rounding each number to the **nearest hundred**.

a  $\begin{array}{r} 46\ 215 \\ + 37\ 986 \\ \hline \end{array}$       b  $\begin{array}{r} 17\ 580 \\ + 19\ 271 \\ \hline \end{array}$       c  $\begin{array}{r} 24\ 831 \\ + 46\ 028 \\ \hline \end{array}$

d  $\begin{array}{r} 142\ 853 \\ + 173\ 127 \\ \hline \end{array}$       e  $\begin{array}{r} 429\ 050 \\ + 140\ 271 \\ \hline \end{array}$       f  $\begin{array}{r} 873\ 056 \\ + 117\ 820 \\ \hline \end{array}$

2 Estimate each of the subtractions by first rounding each number to the **nearest thousand**.

a  $\begin{array}{r} 42\ 107 \\ - 19\ 658 \\ \hline \end{array}$       b  $\begin{array}{r} 25\ 963 \\ - 7\ 631 \\ \hline \end{array}$       c  $\begin{array}{r} 47\ 285 \\ - 33\ 863 \\ \hline \end{array}$

d  $\begin{array}{r} 129\ 427 \\ - 114\ 306 \\ \hline \end{array}$       e  $\begin{array}{r} 168\ 301 \\ - 123\ 497 \\ \hline \end{array}$       f  $\begin{array}{r} 850\ 176 \\ - 327\ 871 \\ \hline \end{array}$

3 Estimate the answer by first rounding each amount to the **nearest dollar (\$)**.

a  $\$421.95 + \$62.35$  \_\_\_\_\_      b  $\$121.75 + \$156.85$  \_\_\_\_\_  
 c  $\$643.06 + \$249.16$  \_\_\_\_\_      d  $\$479.15 - \$135.66$  \_\_\_\_\_  
 e  $\$846.27 - \$137.98$  \_\_\_\_\_      f  $\$649.29 - \$377.88$  \_\_\_\_\_

4 Estimate each of the additions by first rounding each number to the **nearest hundred**.

a  $\begin{array}{r} 4\ 267 \\ + 1\ 958 \\ \hline \end{array}$       b  $\begin{array}{r} 7\ 356 \\ + 1\ 279 \\ \hline \end{array}$       c  $\begin{array}{r} 8\ 791 \\ + 4\ 076 \\ \hline \end{array}$

d  $\begin{array}{r} 4\ 880 \\ + 3\ 935 \\ \hline \end{array}$       e  $\begin{array}{r} 6\ 217 \\ + 7\ 463 \\ \hline \end{array}$       f  $\begin{array}{r} 9\ 587 \\ + 998 \\ \hline \end{array}$

5 Estimate the addition by first rounding each number to the **nearest hundred**.

$\begin{array}{r} 721\ 098 \\ + 385\ 175 \\ \hline \end{array}$

6 Estimate the subtraction by first rounding each number to the **nearest thousand**.

$\begin{array}{r} 478\ 321 \\ - 169\ 427 \\ \hline \end{array}$

7 Estimate the answer by first rounding each amount to the **nearest dollar (\$)**:  $\$732.56 - \$457.95$

\_\_\_\_\_

8 Estimate the addition equation by first rounding each number to the **nearest hundred**:

$\begin{array}{r} 47\ 981 \\ + 23\ 501 \\ \hline \end{array}$

9 Estimate the subtraction by first rounding each number to the **nearest thousand**:

$\begin{array}{r} 2\ 143\ 856 \\ - 1\ 794\ 301 \\ \hline \end{array}$

### Multiplication tables (1)

1 Find:

- a 7 groups of 4 \_\_\_\_\_
- b 3 groups of 9 \_\_\_\_\_
- c 12 groups of 10 \_\_\_\_\_
- d 8 groups of 5 \_\_\_\_\_
- e 9 groups of 6 \_\_\_\_\_
- f 2 groups of 2 \_\_\_\_\_

2 Find:

- a  $3 \times 8 =$  \_\_\_\_\_
- b  $12 \times 3 =$  \_\_\_\_\_
- c  $11 \times 7 =$  \_\_\_\_\_
- d  $4 \times 10 =$  \_\_\_\_\_
- e  $3 \times 6 =$  \_\_\_\_\_
- f  $7 \times 7 =$  \_\_\_\_\_

3 Complete the boxes:

- a  $7 \times \square = 21$
- b  $\square \times 10 = 90$
- c  $8 \times \square = 64$
- d  $2 \times \square = 14$
- e  $\square \times 5 = 20$
- f  $\square \times 4 = 48$

4 Find the total cost of:

- a 10 hats at \$9 each \_\_\_\_\_
- b 4 drinks at \$3 each \_\_\_\_\_
- c 7 magazines at \$12 each \_\_\_\_\_
- d 3 bags of potatoes at \$5 each \_\_\_\_\_
- e 12 snacks at \$2 each \_\_\_\_\_
- f 4 movie tickets at \$8 each \_\_\_\_\_

5 Find 9 groups of 12: \_\_\_\_\_

6 Find  $11 \times 11$ : \_\_\_\_\_

7 Complete the box:  $7 \times \square = 63$

8 Find the **total cost** of 5 birthday cakes at \$11 each.

\_\_\_\_\_

9 Complete:

×	4	7	9	11	12
6					

# Multiplication tables (2)

1 Find the **product** of:

- a 10 and 10 \_\_\_\_\_
- b 7 and 6 \_\_\_\_\_
- c 9 and 4 \_\_\_\_\_
- d 2 and 5 \_\_\_\_\_
- e 0 and 8 \_\_\_\_\_
- f 11 and 3 \_\_\_\_\_

2 True or false?

- a  $6 \times 3 = 2 \times 9$  \_\_\_\_\_
- b  $5 \times 7 = 3 \times 10$  \_\_\_\_\_
- c  $7 \times 7 = 5 \times 10$  \_\_\_\_\_
- d  $12 \times 3 = 6 \times 6$  \_\_\_\_\_
- e  $10 \times 11 = 12 \times 10$  \_\_\_\_\_
- f  $5 \times 8 = 4 \times 10$  \_\_\_\_\_

3 Complete:

- |   |            |   |            |   |            |
|---|------------|---|------------|---|------------|
| a | 6          | b | 10         | c | 8          |
|   | $\times 4$ |   | $\times 6$ |   | $\times 9$ |
| d | 3          | e | 12         | f | 0          |
|   | $\times 7$ |   | $\times 5$ |   | $\times 4$ |

4 Find the **total** number of days in:

- a 6 weeks \_\_\_\_\_
- b 1 week \_\_\_\_\_
- c 10 weeks \_\_\_\_\_
- d 4 weeks \_\_\_\_\_
- e 12 weeks \_\_\_\_\_
- f 7 weeks \_\_\_\_\_

5 Find the **product** of 8 and 3: \_\_\_\_\_

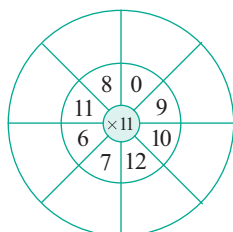
6 True or false?  $9 \times 8 = 12 \times 6$  \_\_\_\_\_

7 Complete:

$$\begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$$

8 Find the **total** number of days in 9 weeks.  
\_\_\_\_\_

9 Complete the multiplication circle:



# Multiplication review

1 Find:

- a the **product** of 9 and 7 \_\_\_\_\_
- b 8 **groups of** 2 \_\_\_\_\_
- c 11 **times** 5 \_\_\_\_\_
- d 12 **multiplied by** 7 \_\_\_\_\_
- e 6 **lots of** 8 \_\_\_\_\_
- f 12 and 12 **multiplied** \_\_\_\_\_

2 Find:

- |   |            |   |            |   |            |
|---|------------|---|------------|---|------------|
| a | 12         | b | 6          | c | 4          |
|   | $\times 8$ |   | $\times 0$ |   | $\times 7$ |
| d | 5          | e | 7          | f | 3          |
|   | $\times 9$ |   | $\times 5$ |   | $\times 2$ |

3 Complete the boxes:

- a  $6 \times \square = \square = 12 \times 1$
- b  $9 \times \square = 72 = 6 \times \square$
- c  $\square \times 3 = \square = 6 \times 4$
- d  $6 \times 5 = \square = 3 \times \square$
- e  $2 \times 9 = \square = 6 \times \square$
- f  $5 \times \square = \square = 10 \times 2$

4 Find the **product** and answer in words:

- a nine and three \_\_\_\_\_
- b eight and six \_\_\_\_\_
- c one and seven \_\_\_\_\_
- d twelve and eleven \_\_\_\_\_
- e twelve and nine \_\_\_\_\_
- f zero and seven \_\_\_\_\_

5 Find 7 **times** 10. \_\_\_\_\_

6 Find:

$$\begin{array}{r} 12 \\ \times 9 \\ \hline \end{array}$$

7 Complete the boxes:  $5 \times \square = \square = 25 \times 2$

8 Find the **product** of seven and eight. \_\_\_\_\_

9 Find the **total** number of animals if there were:

- 5 paddocks with 12 cows in each \_\_\_\_\_
- 2 paddocks with 3 horses in each \_\_\_\_\_
- 2 sties with 2 pigs in each \_\_\_\_\_
- 5 pens with 10 chickens in each \_\_\_\_\_

**Multiplication of tens, hundreds and thousands (1)**

**1 Find:**

a  $4 \times 2$  tens =  tens

b  $9 \times 3$  tens =  tens

c  $6 \times 7$  hundreds =  hundreds

d  $5 \times 5$  hundreds =  hundreds

e  $8 \times 4$  thousands =  thousands

f  $7 \times 8$  thousands =  thousands

**2 Complete:**

a 
$$\begin{array}{r} 40 \\ \times 7 \\ \hline \end{array}$$

b 
$$\begin{array}{r} 50 \\ \times 3 \\ \hline \end{array}$$

c 
$$\begin{array}{r} 60 \\ \times 10 \\ \hline \end{array}$$

d 
$$\begin{array}{r} 90 \\ \times 5 \\ \hline \end{array}$$

e 
$$\begin{array}{r} 70 \\ \times 4 \\ \hline \end{array}$$

f 
$$\begin{array}{r} 80 \\ \times 6 \\ \hline \end{array}$$

**3 Complete:**

a 
$$\begin{array}{r} 200 \\ \times 7 \\ \hline \end{array}$$

b 
$$\begin{array}{r} 400 \\ \times 4 \\ \hline \end{array}$$

c 
$$\begin{array}{r} 900 \\ \times 2 \\ \hline \end{array}$$

d 
$$\begin{array}{r} 800 \\ \times 5 \\ \hline \end{array}$$

e 
$$\begin{array}{r} 600 \\ \times 9 \\ \hline \end{array}$$

f 
$$\begin{array}{r} 500 \\ \times 7 \\ \hline \end{array}$$

**4 Complete:**

a 
$$\begin{array}{r} 8000 \\ \times 4 \\ \hline \end{array}$$

b 
$$\begin{array}{r} 4000 \\ \times 6 \\ \hline \end{array}$$

c 
$$\begin{array}{r} 2000 \\ \times 3 \\ \hline \end{array}$$

d 
$$\begin{array}{r} 3000 \\ \times 9 \\ \hline \end{array}$$

e 
$$\begin{array}{r} 7000 \\ \times 2 \\ \hline \end{array}$$

f 
$$\begin{array}{r} 6000 \\ \times 5 \\ \hline \end{array}$$

**5 Find:**  $8 \times 2$  thousands =  thousands

**6 Complete:** 
$$\begin{array}{r} 30 \\ \times 9 \\ \hline \end{array}$$

**7 Complete:** 
$$\begin{array}{r} 700 \\ \times 9 \\ \hline \end{array}$$

**8 Complete:** 
$$\begin{array}{r} 9000 \\ \times 9 \\ \hline \end{array}$$

**9** Each night Jenny used 700 L of water for a shower. **How much** water did she use in 1 week (7 days)?

**Multiplication of tens, hundreds and thousands (2)**

**1 Complete:**

a  $10 \times 23 =$  \_\_\_\_\_ b  $10 \times 14 =$  \_\_\_\_\_

$20 \times 23 =$  \_\_\_\_\_  $20 \times 14 =$  \_\_\_\_\_

$30 \times 23 =$  \_\_\_\_\_  $30 \times 14 =$  \_\_\_\_\_

c  $10 \times 76 =$  \_\_\_\_\_ d  $10 \times 34 =$  \_\_\_\_\_

$20 \times 76 =$  \_\_\_\_\_  $20 \times 34 =$  \_\_\_\_\_

$30 \times 76 =$  \_\_\_\_\_  $30 \times 34 =$  \_\_\_\_\_

e  $10 \times 52 =$  \_\_\_\_\_ f  $10 \times 17 =$  \_\_\_\_\_

$20 \times 52 =$  \_\_\_\_\_  $20 \times 17 =$  \_\_\_\_\_

$30 \times 52 =$  \_\_\_\_\_  $30 \times 17 =$  \_\_\_\_\_

**2 Complete:**

a  $10 \times 20 =$  \_\_\_\_\_ b  $10 \times 50 =$  \_\_\_\_\_

$20 \times 20 =$  \_\_\_\_\_  $20 \times 50 =$  \_\_\_\_\_

$30 \times 20 =$  \_\_\_\_\_  $30 \times 50 =$  \_\_\_\_\_

c  $10 \times 90 =$  \_\_\_\_\_ d  $10 \times 70 =$  \_\_\_\_\_

$20 \times 90 =$  \_\_\_\_\_  $20 \times 70 =$  \_\_\_\_\_

$30 \times 90 =$  \_\_\_\_\_  $30 \times 70 =$  \_\_\_\_\_

e  $10 \times 40 =$  \_\_\_\_\_ f  $10 \times 80 =$  \_\_\_\_\_

$20 \times 40 =$  \_\_\_\_\_  $20 \times 80 =$  \_\_\_\_\_

$30 \times 40 =$  \_\_\_\_\_  $30 \times 80 =$  \_\_\_\_\_

**3 Complete:**

a  $60 \times 60 =$  \_\_\_\_\_ b  $80 \times 50 =$  \_\_\_\_\_

c  $90 \times 30 =$  \_\_\_\_\_ d  $40 \times 70 =$  \_\_\_\_\_

e  $90 \times 60 =$  \_\_\_\_\_ f  $70 \times 20 =$  \_\_\_\_\_

**4 Find the total number of:**

a 4 lots of 300 books \_\_\_\_\_

b pay for 7 days at \$80 a day \_\_\_\_\_

c 30 groups of 20 students \_\_\_\_\_

d 40 stories of 90 words \_\_\_\_\_

e 50 packets of 30 biscuits \_\_\_\_\_

f 70 crates of 10 L of milk \_\_\_\_\_

**5 Complete:**  $10 \times 26 =$  \_\_\_\_\_  
 $20 \times 26 =$  \_\_\_\_\_  
 $30 \times 26 =$  \_\_\_\_\_

**6 Complete:**  $10 \times 30 =$  \_\_\_\_\_  
 $20 \times 30 =$  \_\_\_\_\_  
 $30 \times 30 =$  \_\_\_\_\_

**7 Complete:**  $50 \times 50 =$  \_\_\_\_\_

**8** Find the **total** number of 30 eggs in baskets of 40 Easter eggs.

\_\_\_\_\_

**9** The school shop ordered 20 boxes of snacks and there were 89 snacks in each box. If 15 snacks were sold from each box, how many **were left** in total?

\_\_\_\_\_

Multiplication of tens, hundreds and thousands (3)

1 Complete:

- a  $300 \times 50 =$  \_\_\_\_\_
- b  $800 \times 20 =$  \_\_\_\_\_
- c  $40 \times 600 =$  \_\_\_\_\_
- d  $90 \times 500 =$  \_\_\_\_\_
- e  $30 \times 900 =$  \_\_\_\_\_
- f  $70 \times 400 =$  \_\_\_\_\_

2 Complete the chart:

	$\times$	10	100	1000
a	40			
b	70			
c	83			
d	29			
e	200			
f	167			

3 Complete:

- a  $120 \times 30$
- b  $250 \times 40$
- c  $110 \times 20$
- d  $500 \times 70$
- e  $110 \times 80$
- f  $140 \times 30$

4 Find the product of:

- a 70 and 10 \_\_\_\_\_
- b 800 and 100 \_\_\_\_\_
- c 423 and 100 \_\_\_\_\_
- d 126 and 1000 \_\_\_\_\_
- e 47 and 1000 \_\_\_\_\_
- f 93 and 100 \_\_\_\_\_

5 Complete:  $60 \times 700 =$  \_\_\_\_\_

6 Complete the chart:

$\times$	10	100	1000
123			

7 Complete:  $120 \times 70$

8 Find the product of 98 and 1000. \_\_\_\_\_

9 On average there are 519 students at each of 30 schools. Approximately how many students are there altogether?  
\_\_\_\_\_

Multiplication

1 Complete:

- a  $14 \times 6$
- b  $19 \times 3$
- c  $42 \times 9$
- d  $37 \times 5$
- e  $63 \times 7$
- f  $81 \times 4$

2 Complete:

- a  $149 \times 3$
- b  $258 \times 4$
- c  $301 \times 5$
- d  $825 \times 6$
- e  $714 \times 7$
- f  $552 \times 8$

3 Find the product of:

- a 4311 and 2 \_\_\_\_\_
- b 2481 and 3 \_\_\_\_\_
- c 8051 and 4 \_\_\_\_\_
- d 1192 and 5 \_\_\_\_\_
- e 5352 and 6 \_\_\_\_\_
- f 1052 and 7 \_\_\_\_\_

4 Find:

- a  $4860 \times 3$
- b  $9240 \times 4$
- c  $1070 \times 5$
- d  $20\ 300 \times 6$
- e  $43\ 000 \times 9$
- f  $18\ 000 \times 2$

5 Complete:  $17 \times 8$

6 Complete:  $685 \times 4$

7 Find the product of 2104 and 7 \_\_\_\_\_

8 Find:  $36\ 100 \times 3$

- 9 a Find how many seconds in 1 hour. \_\_\_\_\_
- b How many seconds in 6 hours? \_\_\_\_\_
- c How many seconds in 10 hours? \_\_\_\_\_

# Multiplication by 2-digit numbers

1 Estimate the answers to each of the following by rounding the first number to the **nearest ten**:

a	521	b	258	c	301
	$\times 4$		$\times 4$		$\times 5$
d	825	e	714	f	552
	$\times 6$		$\times 7$		$\times 8$

2 Find:

a  $13 \times 61 = (10 \times 61) + (3 \times 61) = \square$   
 b  $23 \times 47 = (20 \times 47) + (3 \times 47) = \square$   
 c  $29 \times 58 = (20 \times 58) + (9 \times 58) = \square$   
 d  $32 \times 76 = (\square \times 76) + (\square \times 76) = \square$   
 e  $17 \times 63 = (\square \times 63) + (\square \times 63) = \square$   
 f  $43 \times 85 = (\square \times 85) + (\square \times 85) = \square$

3 Complete:

a	$27 \times 63 =$	b	$53 \times 87 =$
	$\begin{array}{r} 63 \quad 63 \\ \times 20 \quad \times 7 \\ \hline \square + \square = \square \end{array}$		$\begin{array}{r} 87 \quad 87 \\ \times 50 \quad \times 3 \\ \hline \square + \square = \square \end{array}$
c	$37 \times 96 =$	d	$47 \times 26 =$
	$\begin{array}{r} 96 \quad 96 \\ \times 30 \quad \times 7 \\ \hline \square + \square = \square \end{array}$		$\begin{array}{r} 26 \quad 26 \\ \times 40 \quad \times 7 \\ \hline \square + \square = \square \end{array}$
e	$22 \times 78 =$	f	$45 \times 53 =$
	$\begin{array}{r} 78 \quad 78 \\ \times 20 \quad \times 2 \\ \hline \square + \square = \square \end{array}$		$\begin{array}{r} 53 \quad 53 \\ \times 40 \quad \times 5 \\ \hline \square + \square = \square \end{array}$

4 Calculate each of the following:

a	425	b	572	c	835
	$\times 30$		$\times 60$		$\times 50$
d	701	e	259	f	107
	$\times 33$		$\times 26$		$\times 47$

5 By rounding to the **nearest ten**, estimate the answer to:

$$\begin{array}{r} 861 \\ \times 4 \\ \hline \end{array}$$

6 Find:  $17 \times 26 = (\square \times 26) + (\square \times 26) = \square$

7 Calculate:  $72 \times 75 =$

$$\begin{array}{r} 75 \quad 75 \\ \times 70 \quad \times 2 \\ \hline \square + \square = \square \end{array}$$

8 Complete:

$$\begin{array}{r} 231 \\ \times 35 \\ \hline \end{array}$$

9 Find the answer to one thousand, one hundred and twenty-six **multiplied by** thirty-seven. \_\_\_\_\_

# Extended multiplication (1)

1 Complete:

a	$7 \times 60 =$ _____	b	$9 \times 200 =$ _____
c	$4 \times 800 =$ _____	d	$30 \times 6 =$ _____
e	$60 \div 500 =$ _____	f	$50 \vee 30 =$ _____

2 Complete:

a	$4 \times 30 =$ _____	b	$9 \times 70 =$ _____
	$40 \times 30 =$ _____		$90 \times 70 =$ _____
	$400 \times 30 =$ _____		$900 \times 70 =$ _____
c	$5 \times 80 =$ _____	d	$70 \times 40 =$ _____
	$50 \times 80 =$ _____		$700 \times 40 =$ _____
	$500 \times 80 =$ _____		$7000 \times 40 =$ _____
e	$60 \times 20 =$ _____	f	$80 \times 60 =$ _____
	$600 \times 20 =$ _____		$800 \times 60 =$ _____
	$6000 \times 20 =$ _____		$8000 \times 60 =$ _____

3 Complete:

a	4126	b	8359	c	1027
	$\times 7$		$\times 8$		$\times 4$
d	4623	e	5350	f	6636
	$\times 5$		$\times 6$		$\times 6$

4 Complete:

a	$\begin{array}{r} 43 \\ \times 25 \\ \hline (5 \times 43) \\ + (20 \times 43) \\ \hline \end{array}$	b	$\begin{array}{r} 12 \\ \times 48 \\ \hline (8 \times 73) \\ + (40 \times 73) \\ \hline \end{array}$
c	$\begin{array}{r} 96 \\ \times 37 \\ \hline (7 \times 96) \\ + (30 \times 96) \\ \hline \end{array}$	d	$\begin{array}{r} 65 \\ \times 53 \\ \hline (3 \times 65) \\ + (50 \times 65) \\ \hline \end{array}$
e	$\begin{array}{r} 59 \\ \times 17 \\ \hline (7 \times 59) \\ + (10 \times 59) \\ \hline \end{array}$	f	$\begin{array}{r} 88 \\ \times 66 \\ \hline (6 \times 88) \\ + (60 \times 88) \\ \hline \end{array}$

5 Complete:  $80 \times 40 =$  \_\_\_\_\_

6 Complete:  $30 \times 50 =$  \_\_\_\_\_  $300 \times 50 =$  \_\_\_\_\_

7 Complete:  $\begin{array}{r} 4276 \\ \times 5 \\ \hline \end{array}$

8 Complete:  $\begin{array}{r} 86 \\ \times 14 \\ \hline (4 \times 86) \\ + (10 \times 86) \\ \hline \end{array}$

9 There were 24 eggs in each of 75 large egg cartons. How many eggs were there **altogether**? \_\_\_\_\_

## Extended multiplication (2)

1 Complete:

$$\begin{array}{r} a \quad 92 \\ \times 17 \\ \hline \end{array} \begin{array}{l} (\square \times \square) \\ + \underline{\hspace{1cm}} \end{array}$$

$$\begin{array}{r} b \quad 73 \\ \times 25 \\ \hline \end{array} \begin{array}{l} (\square \times \square) \\ + \underline{\hspace{1cm}} \end{array}$$

$$\begin{array}{r} c \quad 56 \\ \times 49 \\ \hline \end{array} \begin{array}{l} (\square \times \square) \\ + \underline{\hspace{1cm}} \end{array}$$

$$\begin{array}{r} d \quad 28 \\ \times 75 \\ \hline \end{array} \begin{array}{l} (\square \times \square) \\ + \underline{\hspace{1cm}} \end{array}$$

$$\begin{array}{r} e \quad 63 \\ \times 82 \\ \hline \end{array} \begin{array}{l} (\square \times \square) \\ + \underline{\hspace{1cm}} \end{array}$$

$$\begin{array}{r} f \quad 37 \\ \times 53 \\ \hline \end{array} \begin{array}{l} (\square \times \square) \\ + \underline{\hspace{1cm}} \end{array}$$

2 Complete each of the following:

$$a \quad \begin{array}{r} 96 \\ \times 12 \\ \hline \end{array}$$

$$b \quad \begin{array}{r} 75 \\ \times 26 \\ \hline \end{array}$$

$$c \quad \begin{array}{r} 81 \\ \times 14 \\ \hline \end{array}$$

$$d \quad \begin{array}{r} 46 \\ \times 22 \\ \hline \end{array}$$

$$e \quad \begin{array}{r} 63 \\ \times 24 \\ \hline \end{array}$$

$$f \quad \begin{array}{r} 51 \\ \times 19 \\ \hline \end{array}$$

3 Find the product of:

$$a \quad 28 \text{ and } 36 \underline{\hspace{2cm}}$$

$$b \quad 95 \text{ and } 52 \underline{\hspace{2cm}}$$

$$c \quad 16 \text{ and } 42 \underline{\hspace{2cm}}$$

$$d \quad 99 \text{ and } 14 \underline{\hspace{2cm}}$$

$$e \quad 83 \text{ and } 25 \underline{\hspace{2cm}}$$

$$f \quad 53 \text{ and } 41 \underline{\hspace{2cm}}$$

4 Calculate how much each person saved if they saved:

$$a \quad \$36 \text{ a week for } 22 \text{ weeks } \underline{\hspace{2cm}}$$

$$b \quad \$57 \text{ a week for } 19 \text{ weeks } \underline{\hspace{2cm}}$$

$$c \quad \$85 \text{ a week for } 12 \text{ weeks } \underline{\hspace{2cm}}$$

$$d \quad \$40 \text{ a week for } 17 \text{ weeks } \underline{\hspace{2cm}}$$

$$e \quad \$38 \text{ a week for } 25 \text{ weeks } \underline{\hspace{2cm}}$$

$$f \quad \$43 \text{ a week for } 18 \text{ weeks } \underline{\hspace{2cm}}$$

5 Complete:

$$\begin{array}{r} 45 \\ \times 63 \\ \hline \end{array} \begin{array}{l} (\square \times \square) \\ + \underline{\hspace{1cm}} \end{array}$$

6 Complete:

$$\begin{array}{r} 84 \\ \times 36 \\ \hline \end{array}$$

7 Find the product of 27 and 85.  $\underline{\hspace{2cm}}$

8 Calculate how much Sonia saved, if she saved \$39 a week for 13 weeks.  $\underline{\hspace{2cm}}$

9 Each month Josh spent \$32 in dry food and \$5 in treats for his pet cats. **How much** did he spend on cat food each year?  
 $\underline{\hspace{2cm}}$

## Extended multiplication (3)

1 Complete:

$$a \quad \begin{array}{r} 48 \\ \times 17 \\ \hline \end{array}$$

$$b \quad \begin{array}{r} 38 \\ \times 16 \\ \hline \end{array}$$

$$c \quad \begin{array}{r} 97 \\ \times 43 \\ \hline \end{array}$$

$$d \quad \begin{array}{r} 148 \\ \times 52 \\ \hline \end{array}$$

$$e \quad \begin{array}{r} 678 \\ \times 69 \\ \hline \end{array}$$

$$f \quad \begin{array}{r} 437 \\ \times 75 \\ \hline \end{array}$$

2 Find:

$$a \quad 16 \times 42 \underline{\hspace{2cm}}$$

$$b \quad 33 \times 59 \underline{\hspace{2cm}}$$

$$c \quad 25 \times 75 \underline{\hspace{2cm}}$$

$$d \quad 92 \times 46 \underline{\hspace{2cm}}$$

$$e \quad 85 \times 63 \underline{\hspace{2cm}}$$

$$f \quad 47 \times 68 \underline{\hspace{2cm}}$$

3 Insert the missing numbers in the correct calculation:  
19, 27, 35, 32, 65, 26

$$a \quad \begin{array}{r} 92 \\ \times \square \\ \hline 184 \\ + 2760 \\ \hline 2944 \end{array}$$

$$b \quad \begin{array}{r} 47 \\ \times \square \\ \hline 235 \\ + 2820 \\ \hline 3055 \end{array}$$

$$c \quad \begin{array}{r} 72 \\ \times \square \\ \hline 432 \\ + 1440 \\ \hline 1872 \end{array}$$

$$d \quad \begin{array}{r} 69 \\ \times \square \\ \hline 483 \\ + 1380 \\ \hline 1863 \end{array}$$

$$e \quad \begin{array}{r} 83 \\ \times \square \\ \hline 415 \\ + 2490 \\ \hline 2905 \end{array}$$

$$f \quad \begin{array}{r} 33 \\ \times \square \\ \hline 297 \\ + 330 \\ \hline 627 \end{array}$$

4 Calculate the total number of fruit:

$$a \quad 15 \text{ boxes, } 98 \text{ bananas in each box } \underline{\hspace{2cm}}$$

$$b \quad 27 \text{ boxes, } 83 \text{ avocados in each box } \underline{\hspace{2cm}}$$

$$c \quad 52 \text{ boxes, } 56 \text{ oranges in each box } \underline{\hspace{2cm}}$$

$$d \quad 3 \text{ boxes, } 66 \text{ apples in each box } \underline{\hspace{2cm}}$$

$$e \quad 42 \text{ boxes, } 75 \text{ mandarins in each box } \underline{\hspace{2cm}}$$

$$f \quad 67 \text{ boxes, } 19 \text{ pineapples in each box } \underline{\hspace{2cm}}$$

5 Complete:

$$\begin{array}{r} 142 \\ \times 23 \\ \hline \end{array}$$

6 Find:  $73 \times 21 = \underline{\hspace{2cm}}$

7 Insert the correct missing number in the calculation:  
43, 54, 53, 34, 32, 26

$$\begin{array}{r} 57 \\ \times \square \\ \hline 171 \\ + 2280 \\ \hline 2451 \end{array}$$

8 Calculate the total number of fruit in 26 boxes if there are 85 plums in each box.  $\underline{\hspace{2cm}}$

9 It is approximately 575 km to drive from Mildura to Melbourne. There are 34 trucks leaving Mildura to drive to Melbourne. What is the total distance they cover?  
 $\underline{\hspace{2cm}}$



## Extended multiplication (4)

1 Complete:

a  $\begin{array}{r} 321 \\ \times 45 \\ \hline \end{array}$       b  $\begin{array}{r} 856 \\ \times 27 \\ \hline \end{array}$       c  $\begin{array}{r} 413 \\ \times 37 \\ \hline \end{array}$

d  $\begin{array}{r} 212 \\ \times 94 \\ \hline \end{array}$       e  $\begin{array}{r} 179 \\ \times 17 \\ \hline \end{array}$       f  $\begin{array}{r} 522 \\ \times 51 \\ \hline \end{array}$

2 The school is buying new electronic equipment. The **total** of each set of purchases is:

- a 14 \$79 telephones \_\_\_\_\_
- b 13 \$156 fax machines \_\_\_\_\_
- c 22 \$446 printers \_\_\_\_\_
- d 12 \$375 scanners \_\_\_\_\_
- e 27 \$390 digital cameras \_\_\_\_\_
- f 87 \$2450 computers \_\_\_\_\_

3 Find:

- a  $38 \times 6510$  \_\_\_\_\_
- b  $26 \times 6400$  \_\_\_\_\_
- c  $29 \times 2100$  \_\_\_\_\_
- d  $42 \times 3200$  \_\_\_\_\_
- e  $56 \times 3040$  \_\_\_\_\_
- f  $19 \times 9640$  \_\_\_\_\_

4 Complete the inventory for the department:

	Item	No. of items	Cost of each item	Total cost
a	hats	98	\$17	
b	glasses	56	\$89	
c	T-shirts	110	\$48	
d	singlets	126	\$26	
e	thongs	85	\$32	
f	shorts	92	\$35	

5 Complete:  $\begin{array}{r} 423 \\ \times 76 \\ \hline \end{array}$

6 A school is buying 52 new \$187 palm pilots. What is the **total** cost of the purchase? \_\_\_\_\_

7 Find:  $27 \times 3090$  \_\_\_\_\_

8 Complete:

Item	No. of items	Cost of each item	Total cost
Shirts	43	\$78	

9 In the insect enclosure at the animal park, the butterflies laid approximately 250 eggs of which 179 hatched. If this happens every second week for a year (26 weeks), how many butterfly eggs are hatched in **total** for a year?  
\_\_\_\_\_

## Multiples, factors and divisibility

1 Circle the numbers that are:

a	divisible by 2	302	491	682	1105	6234	8255	95253
b	divisible by 3	173	735	828	1143	1276	7827	23412
c	divisible by 4	423	536	984	1364	1649	6385	26424
d	divisible by 5	105	621	898	1462	1700	9515	83966
e	divisible by 8	256	452	984	1076	1935	6456	73265
f	divisible by 9	198	356	899	1368	8753	9981	12420

2 True or false?

- a 9 is a factor of 90 \_\_\_\_\_
- b 7 is a factor of 26 \_\_\_\_\_
- c 8 is a factor of 70 \_\_\_\_\_
- d 11 is a factor of 132 \_\_\_\_\_
- e 6 is a factor of 32 \_\_\_\_\_
- f 4 is a factor of 28 \_\_\_\_\_

3 List all the **factors** of:

- a 12 \_\_\_\_\_
- b 18 \_\_\_\_\_
- c 24 \_\_\_\_\_
- d 30 \_\_\_\_\_
- e 48 \_\_\_\_\_
- f 60 \_\_\_\_\_

4 Write down the **first 8 multiples** of:

- a 7 \_\_\_\_\_
- b 6 \_\_\_\_\_
- c 11 \_\_\_\_\_
- d 12 \_\_\_\_\_
- e 10 \_\_\_\_\_
- f 8 \_\_\_\_\_

5 Circle the numbers that are divisible by 10:

321, 460, 703, 1011, 4200, 9090, 12 345

6 True or false?

12 is a factor of 84. \_\_\_\_\_

7 List all the **factors** of 100.  
\_\_\_\_\_

8 Write down the **first 8 multiples** of 9.  
\_\_\_\_\_

9 List all the **factors** of 5000.  
\_\_\_\_\_

## Multiplication strategies

- Answer the following:
  - $20 \times 9 =$  \_\_\_\_\_
  - $40 \times 8 =$  \_\_\_\_\_
  - $60 \times 7 =$  \_\_\_\_\_
  - $400 \times 5 =$  \_\_\_\_\_
  - $500 \times 3 =$  \_\_\_\_\_
  - $800 \times 9 =$  \_\_\_\_\_
- Multiply by ten and then halve to find the answer to:
  - $16 \times 5 =$  \_\_\_\_\_
  - $24 \times 5 =$  \_\_\_\_\_
  - $36 \times 5 =$  \_\_\_\_\_
  - $46 \times 5 =$  \_\_\_\_\_
  - $38 \times 5 =$  \_\_\_\_\_
  - $54 \times 5 =$  \_\_\_\_\_
- Use doubles to find:
  - $16 \times 4 =$  \_\_\_\_\_
  - $18 \times 4 =$  \_\_\_\_\_
  - $24 \times 4 =$  \_\_\_\_\_
  - $22 \times 8 =$  \_\_\_\_\_
  - $33 \times 8 =$  \_\_\_\_\_
  - $47 \times 8 =$  \_\_\_\_\_
- Mentally complete each of the following:
  - $63 \times 4 =$  \_\_\_\_\_
  - $45 \times 5 =$  \_\_\_\_\_
  - $74 \times 5 =$  \_\_\_\_\_
  - $126 \times 2 =$  \_\_\_\_\_
  - $225 \times 3 =$  \_\_\_\_\_
  - $363 \times 6 =$  \_\_\_\_\_
- Answer:  $600 \times 6 =$  \_\_\_\_\_
- Multiply by 10 and then halve to find the answer to:  
 $43 \times 5 =$  \_\_\_\_\_
- Use doubles to find:  $19 \times 8 =$  \_\_\_\_\_
- Mentally complete:  $263 \times 4 =$  \_\_\_\_\_
- Use doubles to find:
  - $18 \times 16 =$  \_\_\_\_\_
  - $24 \times 16 =$  \_\_\_\_\_
  - $33 \times 16 =$  \_\_\_\_\_

## Estimating products

- Round each first number to the nearest ten to make an estimate:
  - $31 \times 6$  \_\_\_\_\_
  - $49 \times 7$  \_\_\_\_\_
  - $53 \times 5$  \_\_\_\_\_
  - $103 \times 9$  \_\_\_\_\_
  - $204 \times 8$  \_\_\_\_\_
  - $298 \times 4$  \_\_\_\_\_
- Find an estimate by first rounding each number to the nearest ten:
  - $82 \times 21$  \_\_\_\_\_
  - $47 \times 29$  \_\_\_\_\_
  - $43 \times 63$  \_\_\_\_\_
  - $38 \times 19$  \_\_\_\_\_
  - $54 \times 67$  \_\_\_\_\_
  - $31 \times 72$  \_\_\_\_\_
- Round each first number to the nearest ten and each second number to the nearest hundred to find an estimate to:
  - $76 \times 436$  \_\_\_\_\_
  - $81 \times 667$  \_\_\_\_\_
  - $24 \times 549$  \_\_\_\_\_
  - $11 \times 589$  \_\_\_\_\_
  - $43 \times 621$  \_\_\_\_\_
  - $58 \times 869$  \_\_\_\_\_
- Estimate the answer and then check with a calculator:
  - $623 \times 47$  E \_\_\_\_\_ A \_\_\_\_\_
  - $408 \times 36$  E \_\_\_\_\_ A \_\_\_\_\_
  - $89 \times 127$  E \_\_\_\_\_ A \_\_\_\_\_
  - $204 \times 69$  E \_\_\_\_\_ A \_\_\_\_\_
  - $579 \times 23$  E \_\_\_\_\_ A \_\_\_\_\_
  - $255 \times 45$  E \_\_\_\_\_ A \_\_\_\_\_
- Round the first number to the nearest ten to make an estimate:  
 $396 \times 7$  \_\_\_\_\_
- Find an estimate by first rounding each number to the nearest ten:  
 $68 \times 34$  \_\_\_\_\_
- Round the first number to the nearest ten and the second number to the nearest hundred to find an estimate to:  
 $62 \times 389$  \_\_\_\_\_
- Estimate the answer to  $653 \times 39$  \_\_\_\_\_ and then check with a calculator. \_\_\_\_\_
- Each week for 23 weeks, Sally delivers 379 newspapers. Estimate the total number of newspapers Sally delivered.  
 \_\_\_\_\_

## Division practice

1 Complete the division equations using the multiplication equations:

a  $9 \times 8 = 72$

$72 \div 8 = \square$

$72 \div 9 = \square$

c  $7 \times 4 = 28$

$28 \div 4 = \square$

$28 \div 7 = \square$

e  $8 \times 6 = 48$

$48 \div 6 = \square$

$48 \div 8 = \square$

b  $6 \times 5 = 30$

$30 \div 5 = \square$

$30 \div 6 = \square$

d  $12 \times 8 = 96$

$96 \div 8 = \square$

$96 \div 12 = \square$

f  $3 \times 12 = 36$

$36 \div 3 = \square$

$36 \div 12 = \square$

2 Complete:

a  $81 \div 9 = \square$

b  $24 \div 3 = \square$

c  $10 \div 10 = \square$

d  $40 \div 5 = \square$

e  $49 \div 7 = \square$

f  $90 \div 9 = \square$

3 Complete:

a  $8 \times \square = 16$

b  $3 \times \square = 27$

c  $11 \times \square = 110$

d  $12 \times \square = 144$

e  $7 \times \square = 56$

f  $6 \times \square = 54$

4 Complete:

a  $2 \overline{)64}$

b  $6 \overline{)54}$

c  $8 \overline{)96}$

d  $3 \overline{)69}$

e  $4 \overline{)88}$

f  $9 \overline{)108}$

5 Complete the division equations using the multiplication equation:  $6 \times 12 = 72$

$72 \div 6 = \square$

$72 \div 12 = \square$

6 Complete:  $24 \div 2 = \square$

7 Complete:  $5 \times \square = 0$

8 Complete:  $5 \overline{)55}$

9 Josie has 164 pencils to put in 4 boxes evenly. How many pencils are there in each box?  $\square$

## Division review

1 Find a fair share if these balls were shared among:

a 4 boys  $\square$

b 6 girls  $\square$

c 8 students  $\square$

d 2 teachers  $\square$

e 12 parents  $\square$

f 3 grandparents  $\square$



2 Find one share and the remainder, if the balls from question 1 were shared among:

a 5 boys  $\square$

b 7 girls  $\square$

c 9 parents  $\square$

d 10 schools  $\square$

e 20 teams  $\square$

f 11 dogs  $\square$

3 Complete:

a  $180 \div 3 = \square$

b  $450 \div 5 = \square$

c  $240 \div 6 = \square$

d  $350 \div 7 = \square$

e  $400 \div 8 = \square$

f  $360 \div 9 = \square$

4 Complete the table:

	Question	Quotient	Remainder
	$20 \div 3$	6	2
a	$30 \div 4$		
b	$51 \div 7$		
c	$38 \div 4$		
d	$40 \div 9$		
e	$55 \div 10$		
f	$63 \div 6$		

5 Find a fair share if the balls are shared among 3 people.

$\square$



6 For the balls in question 5, find one share and the remainder if the balls are shared among 5 policemen.

$\square$

7 Complete:  $490 \div 7 = \square$

8 Complete:

Question	Quotient	Remainder
$14 \div 6$		

9 Complete the table:

Question	Quotient	Remainder
$\square \div 6$	5	2
$\square \div 8$	1	6
$\square \div 3$	9	1
$\square \div 7$	8	4

## Division with remainders

1 Complete:

a  $52 \div 6 =$  \_\_\_\_\_

b  $40 \div 3 =$  \_\_\_\_\_

c  $70 \div 9 =$  \_\_\_\_\_

d  $50 \div 11 =$  \_\_\_\_\_

e  $80 \div 12 =$  \_\_\_\_\_

f  $34 \div 4 =$  \_\_\_\_\_

2 Complete:

a 
$$\begin{array}{r} 2 \overline{)648} \end{array}$$

b 
$$\begin{array}{r} 3 \overline{)369} \end{array}$$

c 
$$\begin{array}{r} 5 \overline{)560} \end{array}$$

d 
$$\begin{array}{r} 8 \overline{)976} \end{array}$$

e 
$$\begin{array}{r} 7 \overline{)924} \end{array}$$

f 
$$\begin{array}{r} 4 \overline{)504} \end{array}$$

3 Complete:

a 
$$\begin{array}{r} 10 \overline{)722} \end{array}$$

b 
$$\begin{array}{r} 10 \overline{)655} \end{array}$$

c 
$$\begin{array}{r} 5 \overline{)547} \end{array}$$

d 
$$\begin{array}{r} 8 \overline{)2644} \end{array}$$

e 
$$\begin{array}{r} 3 \overline{)9026} \end{array}$$

f 
$$\begin{array}{r} 9 \overline{)2735} \end{array}$$

4 Find:

a Isabel had \$465; this is 10 times as much as Katie. **How much** does Katie have? \_\_\_\_\_

b 497 eggs have to be placed into cartons of 6. **How many** cartons are needed? \_\_\_\_\_

c Each car needs 4 tyres. If there is a pile of 639 tyres, **how many** cars can be completed? \_\_\_\_\_

d Liam used 742 mL of milk to fill 7 glasses. **How much** milk was poured into each? \_\_\_\_\_

e I had a 985 cm length of string, which had to be cut into 5 equal pieces. What was the **length of each** piece? \_\_\_\_\_

f 4027 thumbtacks had to be put into 3 boxes equally. **How many** thumbtacks were there in each box? \_\_\_\_\_

5 Complete:  $67 \div 8 =$  \_\_\_\_\_

6 Complete:

$$\begin{array}{r} 3 \overline{)705} \end{array}$$

7 Complete:

$$\begin{array}{r} 7 \overline{)4065} \end{array}$$

8 8568 letters were divided equally into 8 mail bags. **How many** letters were there in each bag? \_\_\_\_\_

9 Sara had 3 pieces of ribbon of length 48 cm, 52 cm and 64 cm. What was the **average length** of the ribbon? \_\_\_\_\_

## Division with remainders – fractions

1 **How much** would each person receive if 5 children shared?

a 5 pieces of fruit \_\_\_\_\_

b 6 pieces of fruit \_\_\_\_\_

c 10 pieces of fruit \_\_\_\_\_

d 7 pieces of fruit \_\_\_\_\_

e 12 pieces of fruit \_\_\_\_\_

f 23 pieces of fruit \_\_\_\_\_

2 Write each answer as a **mixed number**:

a 
$$\begin{array}{r} 2 \overline{)43} \end{array}$$

b 
$$\begin{array}{r} 3 \overline{)31} \end{array}$$

c 
$$\begin{array}{r} 4 \overline{)29} \end{array}$$

d 
$$\begin{array}{r} 6 \overline{)80} \end{array}$$

e 
$$\begin{array}{r} 5 \overline{)94} \end{array}$$

f 
$$\begin{array}{r} 7 \overline{)50} \end{array}$$

4 Write each answer as a **mixed number**:

a 
$$\begin{array}{r} 6 \overline{)902} \end{array}$$

b 
$$\begin{array}{r} 4 \overline{)503} \end{array}$$

c 
$$\begin{array}{r} 7 \overline{)629} \end{array}$$

d 
$$\begin{array}{r} 8 \overline{)594} \end{array}$$

e 
$$\begin{array}{r} 9 \overline{)256} \end{array}$$

f 
$$\begin{array}{r} 5 \overline{)433} \end{array}$$

4 Complete each of the equations writing the **remainders as a fraction**:

a 
$$\begin{array}{r} 6 \overline{)7265} \end{array}$$

b 
$$\begin{array}{r} 8 \overline{)9650} \end{array}$$

c 
$$\begin{array}{r} 3 \overline{)5471} \end{array}$$

d 
$$\begin{array}{r} 7 \overline{)9350} \end{array}$$

e 
$$\begin{array}{r} 9 \overline{)2468} \end{array}$$

f 
$$\begin{array}{r} 4 \overline{)5363} \end{array}$$

5 **How much** would each person receive if 5 children shared 16 pieces of fruit?  
\_\_\_\_\_

6 Write the answer as a **mixed number**:

$$\begin{array}{r} 8 \overline{)75} \end{array}$$

7 Write the answer as a **mixed number**:

$$\begin{array}{r} 3 \overline{)247} \end{array}$$

8 Complete the equation writing the **remainder as a fraction**:

$$\begin{array}{r} 5 \overline{)5307} \end{array}$$

9 Complete each of the following writing the answer as a **fraction**:

a 
$$\begin{array}{r} 10 \overline{)7} \end{array}$$

b 
$$\begin{array}{r} 4 \overline{)1} \end{array}$$

c 
$$\begin{array}{r} 7 \overline{)5} \end{array}$$

## Division with zeros in the answer

1 Complete:

a  $10 \overline{) 390}$       b  $10 \overline{) 850}$       c  $10 \overline{) 400}$

d  $10 \overline{) 671}$       e  $10 \overline{) 349}$       f  $10 \overline{) 850}$

2 Complete:

a  $3 \overline{) 3135}$       b  $5 \overline{) 5055}$       c  $6 \overline{) 5472}$

d  $8 \overline{) 9616}$       e  $7 \overline{) 4921}$       f  $4 \overline{) 8360}$

3 Complete:

a  $4 \overline{) 2013}$       b  $5 \overline{) 7019}$       c  $3 \overline{) 1605}$

d  $9 \overline{) 91\ 803}$       e  $8 \overline{) 70\ 615}$       f  $6 \overline{) 36\ 102}$

4 Find:

- a 4963 plants were planted in 7 rows. **How many** plants were there in each row? \_\_\_\_\_
- b A band with 5 players earned \$975. **How much** did each player receive? \_\_\_\_\_
- c The same number of newspapers was placed in 8 piles. **How many** newspapers were there in each pile, if there were 1656 newspapers to begin with?  
\_\_\_\_\_
- d 714 students at university rode bikes. **How many** bikes were there in each of 7 racks, if they were all full? \_\_\_\_\_
- e There were 4563 chocolates to place in box trays. **How many** box trays were needed if there were 9 chocolates in each tray? \_\_\_\_\_
- f **How many** weeks is 8407 days? \_\_\_\_\_

5 Complete:

$10 \overline{) 259}$

6 Complete:

$9 \overline{) 9018}$

7 Complete:

$7 \overline{) 2143}$

8 **How many** 6 cm lengths are there in 5004 cm? \_\_\_\_\_

9 Find the **missing number**:  $10\ 304\ r\ 3$   
 $5 \overline{) \quad \quad \quad}$

## Division with zeros in the divisor

1 Complete:

a  $10 \overline{) 4301}$       b  $10 \overline{) 7438}$       c  $10 \overline{) 5060}$

d  $10 \overline{) 8497}$       e  $10 \overline{) 6635}$       f  $10 \overline{) 9010}$

2 Write the number of **tens** in:

- a 4360 \_\_\_\_\_
- b 21 070 \_\_\_\_\_
- c 46 000 \_\_\_\_\_
- d 21 040 \_\_\_\_\_
- e 39 110 \_\_\_\_\_
- f 61 270 \_\_\_\_\_

3 Complete:

a  $10 \overline{) 24\ 680}$       b  $10 \overline{) 71\ 020}$

c  $10 \overline{) 87\ 630}$       d  $10 \overline{) 190\ 416}$

e  $10 \overline{) 487\ 951}$       f  $10 \overline{) 847\ 315}$

4 Change each of the following to **centimetres**:

- a 9600 mm \_\_\_\_\_
- b 17 500 mm \_\_\_\_\_
- c 490 mm \_\_\_\_\_
- d 8710 mm \_\_\_\_\_
- e 38 420 mm \_\_\_\_\_
- f 1120 mm \_\_\_\_\_

5 Complete:

$10 \overline{) 4371}$

6 Write the number of **tens** in 14 260 \_\_\_\_\_

7 Complete:

$10 \overline{) 471\ 805}$

8 Change 39 100 mm to **centimetres**: \_\_\_\_\_

9 Ten plastic stars fit in one box. **How many** boxes are filled with 350 000 plastic stars?  
\_\_\_\_\_

## Division by numbers with zeros

1 Complete:

a	$10 \overline{) 5760}$	b	$10 \overline{) 2490}$	c	$10 \overline{) 3100}$
d	$10 \overline{) 23\ 000}$	e	$10 \overline{) 46\ 900}$	f	$10 \overline{) 48\ 700}$

2 Complete:

a	$100 \overline{) 2100}$	b	$100 \overline{) 3700}$
c	$100 \overline{) 2900}$	d	$100 \overline{) 48\ 000}$
e	$100 \overline{) 52\ 000}$	f	$100 \overline{) 39\ 000}$

3 Complete by **first dividing both numbers by 10**:

a	$50 \overline{) 1050}$	b	$30 \overline{) 3600}$
c	$40 \overline{) 2800}$	d	$70 \overline{) 42\ 000}$
e	$90 \overline{) 10\ 710}$	f	$60 \overline{) 1800}$

4 Complete:

a	$90 \overline{) 3033}$	b	$70 \overline{) 2485}$
c	$60 \overline{) 2142}$	d	$80 \overline{) 7632}$
e	$50 \overline{) 4635}$	f	$40 \overline{) 7288}$

5 Complete:

$$10 \overline{) 4320}$$

6 Complete:

$$100 \overline{) 10700}$$

7 Complete by **first dividing both numbers by 10**:

$$80 \overline{) 2400}$$

8 Complete:

$$30 \overline{) 1014}$$

9 Round each answer to the **nearest whole number**:

a	$40 \overline{) 6175}$	b	$50 \overline{) 8432}$
	_____		_____

## Division of numbers larger than 999

1 Complete:

a	$6 \overline{) 8628}$	b	$3 \overline{) 1554}$	c	$5 \overline{) 7215}$
d	$4 \overline{) 1936}$	e	$8 \overline{) 8496}$	f	$7 \overline{) 7245}$

2 Complete:

a	$7 \overline{) 63\ 159}$	b	$4 \overline{) 12\ 648}$	c	$6 \overline{) 35\ 691}$
d	$10 \overline{) 42\ 681}$	e	$9 \overline{) 71\ 463}$	f	$5 \overline{) 42\ 183}$

3 Solve:

a **How many** students were at camp, if  $\frac{1}{4}$  of 2000 students were there?

\_\_\_\_\_

b 5648 L **divided** into 8 containers

\_\_\_\_\_

c 746 325 m<sup>2</sup> of land **divided** into 5 equal paddocks

\_\_\_\_\_

d 46 392 km **divided** into 4 equal sections

\_\_\_\_\_

e 1128 tonnes **loaded equally** onto 8 different boats

\_\_\_\_\_

f If 396 points were scored in 6 games, what was the **average number** of points per game?

\_\_\_\_\_

4 Find the **missing numbers**:

a	$\begin{array}{r} 1234 \\ 3 \overline{) \phantom{0000}} \end{array}$	b	$\begin{array}{r} 1021 \\ 6 \overline{) \phantom{0000}} \end{array}$	c	$\begin{array}{r} 631 \\ 7 \overline{) \phantom{0000}} \end{array}$
d	$\begin{array}{r} 802 \\ 9 \overline{) \phantom{0000}} \end{array}$	e	$\begin{array}{r} 2116 \\ 4 \overline{) \phantom{0000}} \end{array}$	f	$\begin{array}{r} 739 \\ 8 \overline{) \phantom{0000}} \end{array}$

5 Complete:

$$9 \overline{) 6399}$$

6 Complete:

$$8 \overline{) 46\ 321}$$

7 \$8935 was shared among 5 workers. **How much** did each one receive? \_\_\_\_\_

8 Find the **missing number**:

$$\begin{array}{r} 1731 \\ 5 \overline{) \phantom{0000}} \end{array}$$

9 Find the **missing number**:

$$\begin{array}{r} 2\ 4\ 1\ 3\ r\ 5 \\ 7 \overline{) \phantom{00000}} \end{array}$$



## Extended division

1 Complete:

$$\begin{array}{r} 12 \overline{) 288} \\ - \quad \square 2 \\ \hline \square \square \\ - \square 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \overline{) 1128} \\ - \quad \square \square 1 \\ \hline \square \square \square 4 \\ - \square \square \square 4 \\ \hline \square \square \square 1 \\ - \square \square \square 1 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \overline{) 484} \\ - \quad \square \square 4 \\ \hline \square \square \square \\ - \square \square \square 4 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \overline{) 168} \\ - \quad \square \square 1 \\ \hline \square \square \square \\ - \square \square \square 2 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \overline{) 286} \\ - \quad \square \square 1 \\ \hline \square \square \square 3 \\ - \square \square \square 3 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \overline{) 403} \\ - \quad \square \square 1 \\ \hline \square \square \square 3 \\ - \square \square \square 3 \\ \hline \end{array}$$

2 Use the above method to complete:

$$a \quad 6 \overline{) 188}$$

$$b \quad 8 \overline{) 142}$$

$$c \quad 13 \overline{) 496}$$

$$d \quad 63 \overline{) 756}$$

$$e \quad 27 \overline{) 290}$$

$$f \quad 13 \overline{) 625}$$

3 Find:

$$a \quad 299 \div 18 = \underline{\hspace{2cm}} \quad b \quad 600 \div 12 = \underline{\hspace{2cm}}$$

$$c \quad 496 \div 25 = \underline{\hspace{2cm}} \quad d \quad 147 \div 13 = \underline{\hspace{2cm}}$$

$$e \quad 735 \div 15 = \underline{\hspace{2cm}} \quad f \quad 78 \div 14 = \underline{\hspace{2cm}}$$

4 Find the missing numbers:

$$a \quad \begin{array}{r} 10 \text{ r } 5 \\ 27 \overline{) \quad \quad} \end{array} \quad b \quad \begin{array}{r} 46 \text{ r } 2 \\ 14 \overline{) \quad \quad} \end{array} \quad c \quad \begin{array}{r} 21 \text{ r } 8 \\ 17 \overline{) \quad \quad} \end{array}$$

$$d \quad \begin{array}{r} 24 \text{ r } 1 \\ 57 \overline{) \quad \quad} \end{array} \quad e \quad \begin{array}{r} 79 \text{ r } 3 \\ 12 \overline{) \quad \quad} \end{array} \quad f \quad \begin{array}{r} 216 \text{ r } 3 \\ 45 \overline{) \quad \quad} \end{array}$$

5 Complete:

$$\begin{array}{r} 6 \overline{) 498} \\ - \quad \square \square 8 \\ \hline \square \square \square \\ - \square \square \square 3 \\ \hline \end{array}$$

6 Use the above method to complete:

$$11 \overline{) 416}$$

7 Find  $362 \div 32 = \underline{\hspace{2cm}}$

8 Find the missing numbers:

$$15 \overline{) \quad \quad} \begin{array}{r} 32 \text{ r } 7 \\ \square \square \square \end{array}$$

9 How many cartons would 184 eggs fill if each carton holds one dozen eggs?  $\underline{\hspace{2cm}}$

## Averages (1)

1 Find the **average** of each pair of numbers:

a 4 and 6  $\underline{\hspace{2cm}}$

b 12 and 14  $\underline{\hspace{2cm}}$

c 0 and 100  $\underline{\hspace{2cm}}$

d 50 and 150  $\underline{\hspace{2cm}}$

e 125 and 200  $\underline{\hspace{2cm}}$

f 7 and 8  $\underline{\hspace{2cm}}$

2 Find the **average** of each group of numbers:

a 1, 7, 9, 3  $\underline{\hspace{2cm}}$

b 76, 14, 63, 22, 15  $\underline{\hspace{2cm}}$

c 11, 9, 12, 46, 53, 3  $\underline{\hspace{2cm}}$

d 921, 435, 407, 608, 110, 213  $\underline{\hspace{2cm}}$

e \$4.15, \$2.90, \$3.25  $\underline{\hspace{2cm}}$

f \$10, \$11.75, \$12.15, \$2.10  $\underline{\hspace{2cm}}$

3 Find the **average speed** for each of the following:

a I travelled 500 km in 10 hours.  $\square$  km/h

b It took 6 hours to travel 5.4 kilometres.  $\square$  km/h

c The snail moved 9.6 cm in 4 minutes.  $\square$  cm/min

d We flew 1764 km in 7 hours.  $\square$  km/h

e The grasshopper travelled 5 m in 2 minutes.  $\square$  m/min

f The boat travelled 4800 km in 4 days.  $\square$  km/day

4 Here are the temperatures at 4:00 pm for a week.

Day	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
Temp °C	24	26	22	25	29	18	23

What is the average temperature at 4:00 pm for:

a Monday and Tuesday?  $\underline{\hspace{2cm}}$

b Thursday and Friday?  $\underline{\hspace{2cm}}$

c Tuesday, Wednesday and Thursday?  $\underline{\hspace{2cm}}$

d the weekend?  $\underline{\hspace{2cm}}$

e Monday to Friday?  $\underline{\hspace{2cm}}$

f the entire week?  $\underline{\hspace{2cm}}$

5 Find the **average** of 17 and 26:  $\underline{\hspace{2cm}}$

6 Find the **average** of 19, 26, 41, 43, 31:  $\underline{\hspace{2cm}}$

7 Find the **average speed** of a rock climber, climbing

60 metres in 30 minutes  $\square$  m/min

8 What is the **average temperature** of Friday, Saturday and Sunday for question 4?  $\underline{\hspace{2cm}}$

9 Find 3 numbers that give an average of 27.  
 $\underline{\hspace{2cm}}$

## Averages (2)

1 Write the **answer as a decimal**:

a  $8 \overline{)308}$       b  $4 \overline{)150}$       c  $4 \overline{)37}$   
 d  $5 \overline{)248}$       e  $8 \overline{)474}$       f  $5 \overline{)396}$

2 Find the **average** of:

- a 5, 9, 13, 9, 17, 7 \_\_\_\_\_  
 b 50, 111, 59, 93, 77 \_\_\_\_\_  
 c 7, 9, 13, 10, 9, 12, 10 \_\_\_\_\_  
 d 2, 40, 29, 15, 21, 19 \_\_\_\_\_  
 e 71, 63, 51, 29, 36 \_\_\_\_\_  
 f 38, 2, 25, 15, 20 \_\_\_\_\_

3 Find the **average score** for each of the hockey teams for the 6 game pre-season:

	Team	Score	Average
a	Numbers	0, 3, 4, 2, 1, 2	
b	Totals	6, 5, 2, 1, 3, 1	
c	Dividers	0, 2, 1, 3, 0, 0	
d	Multipliers	4, 6, 3, 7, 1, 3	
e	Adders	5, 7, 3, 9, 1, 2	
f	Subtracters	5, 6, 7, 8, 3, 3	

4 What is the **average**:

- a temperature of 28°C, 32°C, 30°C and 35°C  
 \_\_\_\_\_  
 b number of marbles in jars of 112, 116 and 120?  
 \_\_\_\_\_  
 c number of runs of 22, 36, 16, 29 and 56 runs?  
 \_\_\_\_\_  
 d number of fruit in baskets of 7, 8, 19, 21 and 13?  
 \_\_\_\_\_  
 e number of pencils in packets of 12, 10, 9, 8, 11 and 14?  
 \_\_\_\_\_  
 f number of matches in boxes of 85, 72, 53, 107 and 92?  
 \_\_\_\_\_

5 Write the **answer as a decimal**.

$5 \overline{)248}$

6 Find the **average** of 6, 9, 14, 36 and 15. \_\_\_\_\_

7 Find the **average score** for the hockey team for the six game pre-season tournament:

Team	Score	Average
Powers	4, 7, 3, 8, 5, 3	

8 What is the **average cost** of \$9, \$15, \$26, \$39 and \$22?  
 \_\_\_\_\_

9 The batting average of a cricketer for 8 matches is 60. Find the **missing score** from game 3:

Game	1	2	3	4	5	6	7	8
Score	82	62		47	48	100	54	70

## Inverse operations and checking answers

1 Use addition to **check** the subtraction equations. Tick the boxes for those that are correct and write the answers for those that are incorrect:

- a  $176 - 93 = 83$    
 b  $427 - 256 = 172$    
 c  $302 - 175 = 127$    
 d  $579 - 286 = 393$    
 e  $2817 - 1439 = 1476$    
 f  $1951 - 786 = 1165$

2 Use multiplication to **check** the division equations. Tick the boxes for those that are correct and write the answers for those that are incorrect:

- a  $200 \div 10 = 2$        b  $420 \div 60 = 7$    
 c  $180 \div 60 = 90$        d  $100 \div 20 = 5$    
 e  $132 \div 11 = 12$        f  $840 \div 70 = 12$

3 Use inverse operations to **check** the following statements. Answer true or false:

- a  $126 + 235$  is less than 360 \_\_\_\_\_  
 b  $50 \times 20$  is greater than 900 \_\_\_\_\_  
 c  $800 \div 15$  is less than 50 \_\_\_\_\_  
 d  $1246 - 728$  is more than 500 \_\_\_\_\_  
 e  $700 \times 12$  is less than 9000 \_\_\_\_\_  
 f  $4000 \div 20$  is greater than 250 \_\_\_\_\_

4 **Match** the inverse equations:

- a  $6 \times * = 150$       A  $40 \times 2 = *$   
 b  $40 \times * = 120$       B  $15 - 6 = *$   
 c  $* - 25 = 9$       C  $* = 25 - 9$   
 d  $\frac{1}{2}$  of  $* = 40$       D  $150 \div 6 = *$   
 e  $9 + * = 25$       E  $9 + 25 = *$   
 f  $6 + * = 15$       F  $120 \div 40 = *$

5 Use addition to **check** the subtraction equation:  
 $2176 - 385 = 1781$

6 Use multiplication to **check** the division equation:  
 $6000 \div 500 = 12$

7 Use inverse operations to **check** the equation:  
 $1462 + 927 = 2389$  (answer true or false) \_\_\_\_\_

8 **Match** the inverse equation:

- $12 = * \div 8$        $12 \times 8 = *$   
 $12 + 8 = *$   
 $12 - 8 = *$   
 $8 \div 12 = *$

9 Jodie started with a number of pet birds; she sold 5 of them, bought 4 others and then gave 3 away. She now has 12 birds. **How many** birds did Jodie have to start with? \_\_\_\_\_

## Number lines and operations

- Complete the **number lines** to show each of the following:
  - start at 10 and count by 7s  
 $\leftarrow \hspace{10em} \rightarrow$
  - start at 50 and count by 3s  
 $\leftarrow \hspace{10em} \rightarrow$
  - start at 113 and count by 5s  
 $\leftarrow \hspace{10em} \rightarrow$
  - start at 92 and count backwards by 6s  
 $\leftarrow \hspace{10em} \rightarrow$
  - start at 375 and count backwards by 9s  
 $\leftarrow \hspace{10em} \rightarrow$
  - start at 1000 and count backwards by 250s  
 $\leftarrow \hspace{10em} \rightarrow$
- Use the **number lines** to find:
  - $632 + 107 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $856 + 402 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $438 + 756 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $1079 + 987 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $1159 + 248 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $1469 + 1328 =$   $\leftarrow \hspace{10em} \rightarrow$
- Use the **number lines** to find:
  - $486 - 195 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $738 - 297 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $555 - 489 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $1428 - 739 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $1095 - 876 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $2416 - 1482 =$   $\leftarrow \hspace{10em} \rightarrow$
- Use the **number lines** to find:
  - $13 \times 6 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $22 \times 5 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $45 \times 5 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $135 \div 9 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $119 \div 7 =$   $\leftarrow \hspace{10em} \rightarrow$
  - $156 \div 6 =$   $\leftarrow \hspace{10em} \rightarrow$
- Draw a **number line** to show, start at 1126 and count by 8s.
- Use the **number line** to find  $4728 + 1059 =$   
 $\leftarrow \hspace{10em} \rightarrow$
- Use the **number line** to find  $4305 - 2416 =$   
 $\leftarrow \hspace{10em} \rightarrow$
- Use the **number line** to find  $35 \times 6 =$   
 $\leftarrow \hspace{10em} \rightarrow$
- Draw a **number line** from 1 to 3, showing each quarter.
  - Show the following **equations** on the number line:
    - $3 - 2\frac{1}{4} =$
    - $2 \div \frac{1}{4} =$
    - $\frac{1}{2} \times 4 =$
    - $1\frac{3}{4} + \frac{1}{2} =$

## Order of operations (1)

- Complete the **brackets first**:
  - $(20 - 5) \times 10 =$  \_\_\_\_\_
  - $(7 + 5) \times 3 =$  \_\_\_\_\_
  - $6 \times (2 + 5) - 9 =$  \_\_\_\_\_
  - $(100 - 12 \times 3) \div 4 =$  \_\_\_\_\_
  - $(40 + 20) \div 5 + 15 =$  \_\_\_\_\_
  - $7 \times (5 + 6) =$  \_\_\_\_\_
- Work left to right:
  - $9 \times 8 \div 2 =$  \_\_\_\_\_
  - $11 \times 6 \div 2 =$  \_\_\_\_\_
  - $60 \div 10 \times 3 =$  \_\_\_\_\_
  - $200 \div 4 \div 5 =$  \_\_\_\_\_
  - $4 \times 8 \times 2 \div 8 =$  \_\_\_\_\_
  - $12 \times 4 \div 6 =$  \_\_\_\_\_
- Complete the **multiplication and division first**:
  - $20 + 3 \times 5 =$  \_\_\_\_\_
  - $30 - 12 \div 4 + 14 =$  \_\_\_\_\_
  - $200 - 12 \times 12 =$  \_\_\_\_\_
  - $26 + 5 \times 7 + 19 =$  \_\_\_\_\_
  - $36 + 84 \div 4 - 50 =$  \_\_\_\_\_
  - $46 - 66 \div 3 =$  \_\_\_\_\_
- Complete the **brackets first**, then multiplication and division, and finally addition and subtraction:
  - $(4 + 6) \times 9 - 38 =$  \_\_\_\_\_
  - $(10 - 7) \times 5 - 2 \times 6 =$  \_\_\_\_\_
  - $7 \times 4 + 50 \div 2 =$  \_\_\_\_\_
  - $47 + 10 \times (12 + 3) =$  \_\_\_\_\_
  - $(400 \div 10) \div (5 \times 4) =$  \_\_\_\_\_
  - $52 + (7 + 9) \div 4 =$  \_\_\_\_\_
- Complete the **brackets first**:  
 $50 - (6 \times 6) + 27 =$  \_\_\_\_\_
- Work left to right:  $90 \times 3 \times 2 \div 4 =$  \_\_\_\_\_
- Complete the **multiplication and division first**:  
 $7 \times 9 + 100 \div 5 =$  \_\_\_\_\_
- Complete the **brackets first**, then the multiplication and division, and finally addition and subtraction:  
 $5 \times (7 + 6) + 7 =$  \_\_\_\_\_
- Add **brackets** to make the equation true:  
 $17 + 3 + 5 \times 4 = 16 - 7 + 8 \times 5$

# ANSWERS: Units 1 – 5

## Unit 1 Page 19

- 1 a 521 702 b 900 576 c 250 820 d 611 465 e 108 239 f 95 891  
 3 a 8 tens b 6 units c 7 hundred Th d 8 Th e 7 TTh f 6 H  
 4 a 456 957, 454 957, 452 957 b 742 115, 742 215, 742 315  
 c 907 126, 907 136, 907 146 d 852 105, 862 105, 872 105  
 e 223 467, 323 467, 423 467 f 831 046, 841 046, 851 046

	HTh	TTh	Th	H	T	U
a	5	2	1	7	0	2
b	9	0	0	5	7	6
c	2	5	0	8	2	0
d	6	1	1	4	6	5
e	1	0	8	2	3	9
f	0	9	5	8	9	1

- 6 

HTh	TTh	Th	H	T	U
7	9	8	4	6	2

 7 4 tens

- 8 110 734, 110 744, 110 754 9 one hundred and ten thousand, seven hundred and ninety-three

## Unit 2 Page 19



- 2 a eighty thousand, four hundred and eleven b ninety thousand c one hundred and seventy thousand, two hundred and forty-one  
 d nine hundred and ninety-eight thousand, six hundred and forty-two e three hundred and eighty-four thousand and sixty-one  
 f eight hundred and seventy thousand, four hundred 3 a < b > c > d < e < f < 4 a 19 221 b 198 921 c 51 010 d 89 270  
 e 24 879 f 456 285 5 6 two hundred and seventy thousand, eight hundred and fifty 7 <

- 8 31 795  
 9 a 4 b 23 c 204 d 219

## Unit 3 Page 20

- 1 a 5 units b 5 million c 5 thousands d 5 hundred thousands e 5 thousands f 5 ten thousands  
 2 a 1 243 819, 1 308 925, 1 346 721 b 2 487 905, 2 635 921, 2 711 809 c 4 105 907, 4 246 385, 4 365 111  
 d 7 621 505, 7 921 300, 8 051 987 e 5 021 486, 5 121 352, 5 296 837 f 6 842 859, 7 932 481, 8 110 425  
 3 a 2 000 000 b 6 000 000 c 1 000 000 d 1 000 000 e 8 000 000 f 5 000 000

	Number	Place value	Total value
a	398 421	9 tens of thousands	90 000
b	8 710 486	8 millions	8 000 000
c	2 198 704	7 hundreds	700
d	3 947 825	7 thousands	7 000
e	21 843 211	1 millions	1 000 000
f	427 806 921	20 millions	20 000 000

- 5 5 ten thousands 6 2 085 921, 2 127 460, 2 196 380  
 7 3 000 000  
 8 

Number	Place value	Total value
1 438 216	4 hundred thousand	400 000

  
 9 a 50 000 000 b 50 000 000 c 60 000 000

## Unit 4 Page 20

- 1 a 10, 12 b 100, 120 c 136, 145 d 391, 381 e 32, 64 f 880, 868 2 a add 2 b add 20 c add 9 d subtract 10  
 e multiply by 2 f subtract 12

3 a 

1st No.	4	5	6	7	8
2nd No.	36	45	54	63	72

 b 

1st No.	26	36	46	56	66
2nd No.	45	55	65	75	85

 c 

1st No.	1.5	2.5	3.5	4.5	5.5
2nd No.	15	25	35	45	55

d 

1st No.	7	17	27	37	47
2nd No.	35	85	135	185	235

 e 

1st No.	46	56	66	76	86
2nd No.	38	48	58	68	78

 f 

1st No.	64	54	44	34	24
2nd No.	80	70	60	50	40

- 4 a 1st number  $\times$  9 b 1st number  $+$  19 c 1st number  $\times$  10 d 1st number  $\times$  5 e 1st number  $-$  8 f 1st number  $+$  16

- 5 13,  $15\frac{1}{4}$  6 start at  $6\frac{1}{4}$  and add  $2\frac{1}{4}$  7 

1st No.	100	90	80	70	60
2nd No.	20	18	16	14	12

 8 1st number  $\div$  5  
 9 a 1, 4, 9, 16 i.e.  $1^2, 2^2, 3^2, 4^2$  b  $10^2 = 100$

## Unit 5 Page 21

- 1 a 142 561 b 295 629 c 453 785 d 608 096 e 870 807 f 952 003 2 a 50 000 + 6000 + 400 + 9  
 b 200 000 + 10 000 + 3000 + 800 + 40 + 7 c 400 000 + 60 000 + 2000 + 1 d 800 000 + 90 000 + 6000 + 300 + 20 + 5  
 e 1 000 000 + 200 000 + 20 000 + 4000 + 300 + 80 + 7 f 1 000 000 + 900 000 + 5000 + 600 + 20 + 1  
 3 a 428 b 917 c 4863 d 2748 e 21 368 f 72 499 4 a 4 b 21 c 92 d 847 e 123 f 1428 5 429 026  
 6 4 000 000 + 600 000 + 30 000 + 2000 + 500 + 80 + 9 7 432 684 8 468 9 a < b <

# ANSWERS: Units 6 – 12

## Unit 6 Page 21

- 1 a -3, -1, 0, 5, 6, 7, 9, 10 b -7, -3, -2, 0, 1, 2, 4, 8 c -8, -5, -4, -2, 0, 1, 5, 10 d -10, -6, 0, 1, 2, 13, 14 e -10, -5, -4, -2, 0, 1, 3, 5 f -4, -3, -1, 0, 2, 3, 5, 8 2 a 10 b 5 c 0 d 11 e -1 f 0 3 a 8, 10, 12 b 9, 12, 15 c 4, 2, 0 d -1, -3, -5 e -3, -6, -9 f 4, 6, 8 4 a -2 b -5 c 1 d -2 e -3 f -9 5 -10, -7, -3, -2, 0, 2, 5, 10 6 -2 7 -6, -10, -14 8 1



## Unit 7 Page 22

- 1 a 110 b 120 c 120 d 1000 e 900 f 1500 2 a 195 b 394 c 913 d 285 e 193 f 351 3 a 800 b 800 c 1200 d 1300 e 1900 f 3300 4 a 1412 b 1423 c 9083 d 13655 e 7764 f 8267 5 11 000 6 485 7 4400 8 10883  
9  $27846 + 39468 = 67314$

## Unit 8 Page 22

- 1 a 1760 b 1443 c 2215 d 4935 e 13538 f 17134 2 a \$58661 b \$129977 c \$861081 d \$178602 e \$785333 f \$1018256 3 a

$$\begin{array}{r} \phantom{+} \phantom{1} \phantom{4} \phantom{8} \phantom{4} \phantom{5} \\ 3 \phantom{5} \phantom{6} \phantom{4} \\ + \phantom{1} \phantom{4} \phantom{8} \phantom{4} \phantom{5} \\ \hline 4 \phantom{0} \phantom{4} \phantom{0} \phantom{9} \end{array} \quad \begin{array}{r} \phantom{+} \phantom{2} \phantom{0} \phantom{1} \phantom{2} \phantom{6} \phantom{4} \\ 6 \phantom{3} \phantom{2} \phantom{9} \phantom{8} \phantom{6} \\ + \phantom{2} \phantom{0} \phantom{1} \phantom{2} \phantom{6} \phantom{4} \\ \hline 8 \phantom{3} \phantom{4} \phantom{2} \phantom{5} \phantom{0} \end{array} \quad \begin{array}{r} \phantom{+} \phantom{4} \phantom{6} \phantom{5} \phantom{1} \phantom{8} \phantom{7} \\ 1 \phantom{0} \phantom{7} \phantom{9} \phantom{3} \phantom{2} \\ + \phantom{4} \phantom{6} \phantom{5} \phantom{1} \phantom{8} \phantom{7} \\ \hline 5 \phantom{7} \phantom{3} \phantom{1} \phantom{1} \phantom{9} \end{array}$$

d  $\begin{array}{r} 4 \phantom{6} \phantom{7} \phantom{3} \phantom{2} \phantom{6} \\ + 4 \phantom{2} \phantom{2} \phantom{7} \phantom{3} \phantom{6} \\ \hline 8 \phantom{9} \phantom{0} \phantom{0} \phantom{6} \phantom{2} \end{array}$  e  $\begin{array}{r} 3 \phantom{2} \phantom{9} \phantom{1} \phantom{8} \phantom{4} \\ + 4 \phantom{6} \phantom{2} \phantom{7} \phantom{7} \phantom{3} \\ \hline 7 \phantom{9} \phantom{1} \phantom{9} \phantom{5} \phantom{7} \end{array}$  f  $\begin{array}{r} 6 \phantom{2} \phantom{7} \phantom{8} \phantom{5} \phantom{4} \\ + 2 \phantom{5} \phantom{6} \phantom{4} \phantom{3} \phantom{7} \\ \hline 8 \phantom{8} \phantom{4} \phantom{2} \phantom{9} \phantom{1} \end{array}$

- 4 a \$10050 b 85763 cows c 4450 caps d 2401 km e 614 cm f 1476 pieces 5 1889 6 \$943028

7  $\begin{array}{r} 4 \phantom{5} \phantom{3} \phantom{7} \phantom{8} \phantom{4} \\ + 5 \phantom{3} \phantom{6} \phantom{8} \phantom{4} \phantom{8} \\ \hline 9 \phantom{9} \phantom{0} \phantom{6} \phantom{3} \phantom{2} \end{array}$  8 54172 avocados 9 1003961

## Unit 9 Page 23

- 1 a 1511935 b 1478643 c 1122143 d 1649274 e 1339666 f 938838 2 a 308175 b 6235754 c 2276103 d 11528000 e 17383000 f 13730000 3 a \$644688.43 b \$5653635.79 c \$11284181.38 d \$2400878.60 e \$9790564.09 f \$12241973.30 4 a 54208 g b 21702 cm c 85294 tonnes d 16309 L e 39313 km f 1549522 ha 5 1151669 6 11292428 7 \$3560539.35 8 6490 9 \$35085

## Unit 10 Page 23

- 1 a 427 b 834 c 374 d 261 e 139 f 519 2 a 4622 b 884 c 271 d 2887 e 1638 f 606

3 a  $\begin{array}{r} 5 \phantom{6} \phantom{1} \phantom{7} \\ - 4 \phantom{3} \phantom{1} \phantom{3} \\ \hline 1 \phantom{3} \phantom{0} \phantom{4} \end{array}$  b  $\begin{array}{r} 5 \phantom{1} \phantom{6} \phantom{4} \\ - 3 \phantom{1} \phantom{2} \phantom{7} \\ \hline 2 \phantom{0} \phantom{3} \phantom{7} \end{array}$  c  $\begin{array}{r} 9 \phantom{5} \phantom{4} \phantom{1} \\ - 2 \phantom{6} \phantom{7} \phantom{2} \\ \hline 6 \phantom{8} \phantom{6} \phantom{9} \end{array}$  d  $\begin{array}{r} 8 \phantom{7} \phantom{6} \phantom{3} \\ - 2 \phantom{4} \phantom{0} \phantom{8} \\ \hline 6 \phantom{3} \phantom{5} \phantom{5} \end{array}$  e  $\begin{array}{r} 8 \phantom{5} \phantom{7} \phantom{0} \\ - 7 \phantom{2} \phantom{3} \\ \hline 7 \phantom{8} \phantom{4} \phantom{7} \end{array}$

f  $\begin{array}{r} 8 \phantom{2} \phantom{0} \phantom{0} \\ - 7 \phantom{0} \phantom{0} \phantom{4} \\ \hline 1 \phantom{1} \phantom{9} \phantom{6} \end{array}$  4 a 2401 b 7252 c 5520 d 5484 e 842 f 2281 5 547 6 2555 7  $\begin{array}{r} 4 \phantom{0} \phantom{1} \phantom{6} \\ - 1 \phantom{3} \phantom{2} \phantom{5} \\ \hline 2 \phantom{6} \phantom{9} \phantom{1} \end{array}$

- 8 2123 9 \$3192 - \$2385 = \$807 profit

## Unit 11 Page 24

- 1 a 110 b 290 c 190 d 180 e 160 f 140 2 a 147 b 38 c 142 d 180 e 192 f 448 3 a 5514 b 7202 c 2891 d 3473 e 8105 f 4789 4 a 36 b 129 c 147 d 129 e 79 f 44 5 290 6 246 7 6373 8 244 9 177 cards

## Unit 12 Page 24

- 1 a 50 b 60 c 100 d 110 e 260 f 490 2 a 100 b 400 c 900 d 1300 e 5000 f 4500 3 a 1000 b 1000 c 3000 d 18000 e 30000 f 126000 4

	Question	Rounded	Estimate
a	$5778 + 3697$	$6000 + 4000$	10000
b	$2866 + 3105$	$3000 + 3000$	6000
c	$1249 + 2958$	$1000 + 3000$	4000
d	$35977 + 6104$	$36000 + 6000$	42000
e	$55394 + 5106$	$55000 + 5000$	60000
f	$9999 + 27108$	$10000 + 27000$	37000

- 5 730 6 52800 7 135000

	Question	Rounded	Estimate
8	$4687 + 3721$	$5000 + 4000$	9000

- 9 a 9 k b 14 k c 21 k d 51 k e 37 k f 85 k

# ANSWERS: Units 13 – 18

## Unit 13 Page 25

- 1 a 36 461 b 44 237 c 37 719 d 34 640 e 25 270 f 4250    2 a  $\begin{array}{r} 47\,000 \\ -21\,000 \\ \hline 26\,000 \end{array}$  b  $\begin{array}{r} 83\,000 \\ -68\,000 \\ \hline 15\,000 \end{array}$  c  $\begin{array}{r} 92\,000 \\ -43\,000 \\ \hline 49\,000 \end{array}$  d  $\begin{array}{r} 67\,000 \\ -41\,000 \\ \hline 26\,000 \end{array}$  e  $\begin{array}{r} 60\,000 \\ -17\,000 \\ \hline 43\,000 \end{array}$

f 43 000    3 a 554 406 kg b 366 568 m c 123 433 L d 49 274 t e 146 227 ha f 452 279 cm  
 $\begin{array}{r} -11\,000 \\ 32\,000 \end{array}$

- 4 a 780 838 b 341 597 c 26 966 d 252 781 e 488 463 f 222 055    5 8638    6  $\begin{array}{r} 64\,000 \\ -40\,000 \\ \hline 24\,000 \end{array}$     7 62 713 mm    8 542 423

9 various

## Unit 14 Page 25

- 1 a 1 254 000 b 6 686 000 c 3 528 000 d 1 889 000 e 4 529 000 f 1 049 000    2 a \$3 923 225 b \$2 926 290 c \$517 253  
d \$4 462 314 e \$1 970 304 f \$1 822 528    3 a 159 619 km<sup>2</sup> b 182 950 km<sup>2</sup> c 1 541 119 km<sup>2</sup> d 1 353 846 km<sup>2</sup> e 798 300 km<sup>2</sup>  
f 554 745 km<sup>2</sup>    4 a 310 713 kg b 11 153 L c 375 225 t d \$582 756 e 631 474 cm f 705 313 g    5 481 000    6 \$1 460 795  
7 573 915 km<sup>2</sup>    8 12 335 686 L    9 WA – ACT = 2 523 170 km<sup>2</sup>

## Unit 15 Page 26

- 1 a  $\begin{array}{r} 46\,200 \\ +38\,000 \\ \hline 84\,200 \end{array}$  b  $\begin{array}{r} 17\,600 \\ +19\,300 \\ \hline 36\,900 \end{array}$  c  $\begin{array}{r} 24\,800 \\ +46\,000 \\ \hline 70\,800 \end{array}$  d  $\begin{array}{r} 142\,900 \\ +173\,100 \\ \hline 316\,000 \end{array}$  e  $\begin{array}{r} 429\,100 \\ +140\,300 \\ \hline 569\,400 \end{array}$  f  $\begin{array}{r} 873\,100 \\ +117\,800 \\ \hline 990\,900 \end{array}$     2 a  $\begin{array}{r} 42\,000 \\ -20\,000 \\ \hline 22\,000 \end{array}$  b  $\begin{array}{r} 26\,000 \\ -8\,000 \\ \hline 18\,000 \end{array}$  c  $\begin{array}{r} 47\,000 \\ -34\,000 \\ \hline 13\,000 \end{array}$

d 129 000 e 168 000 f 850 000    3 a \$422 + \$62 = \$484 b \$122 + \$157 = \$279 c \$643 + \$249 = \$892  
 $\begin{array}{r} -114\,000 \\ 15\,000 \end{array}$      $\begin{array}{r} -123\,000 \\ 45\,000 \end{array}$      $\begin{array}{r} -328\,000 \\ 522\,000 \end{array}$

d \$479 – \$136 = \$343 e \$846 – \$138 = \$708 f \$649 – \$378 = \$271

- 4 a  $\begin{array}{r} 4\,300 \\ +2\,000 \\ \hline 6\,300 \end{array}$  b  $\begin{array}{r} 7\,400 \\ +1\,300 \\ \hline 8\,700 \end{array}$  c  $\begin{array}{r} 8\,800 \\ +4\,100 \\ \hline 12\,900 \end{array}$  d  $\begin{array}{r} 4\,900 \\ +3\,900 \\ \hline 8\,800 \end{array}$  e  $\begin{array}{r} 6\,200 \\ +7\,500 \\ \hline 13\,700 \end{array}$  f  $\begin{array}{r} 9\,600 \\ +1\,000 \\ \hline 10\,600 \end{array}$

- 5  $\begin{array}{r} 721\,100 \\ +385\,200 \\ \hline 1\,106\,300 \end{array}$     6  $\begin{array}{r} 478\,000 \\ -169\,000 \\ \hline 309\,000 \end{array}$     7 \$733 – \$458 = \$275    8  $\begin{array}{r} 47\,900 \\ +23\,500 \\ \hline 71\,400 \end{array}$     9 2 144 000 – 1 794 000 = 350 000

## Unit 16 Page 26

- 1 a 28 b 27 c 120 d 40 e 54 f 4    2 a 24 b 36 c 77 d 40 e 18 f 49    3 a 3 b 9 c 8 d 7 e 4 f 12    4 a \$90 b \$12  
c \$84 d \$15 e \$24 f \$32    5 108    6 121    7 9    8 \$55    9

×	4	7	9	11	12
6	24	42	54	66	72

## Unit 17 Page 27

- 1 a 100 b 42 c 36 d 10 e 0 f 33    2 a true b false c false d true e false f true    3 a 24 b 60 c 72 d 21 e 60 f 0  
4 a 42 days b 7 days c 70 days d 28 days e 84 days f 49 days    5 24    6 true    7 44    8 63 days  
9 0,99,110,132,77,66,121,88

## Unit 18 Page 27

- 1 a 63 b 16 c 55 d 84 e 48 f 144    2 a 96 b 0 c 28 d 45 e 35 f 6    3 a  $6 \times \boxed{2} = \boxed{12} = 12 \times 1$   
 $b 9 \times \boxed{8} = 72 = 6 \times \boxed{12}$  c  $\boxed{8} \times 3 = \boxed{24} = 6 \times 4$  d  $6 \times 5 = \boxed{30} = 3 \times \boxed{10}$  e  $2 \times 9 = \boxed{18} = 6 \times \boxed{3}$   
f  $5 \times \boxed{4} = \boxed{20} = 10 \times 2$     4 a twenty-seven b forty-eight c seven d one hundred and thirty-two e one hundred and eight  
f zero    5 70    6 108    7  $5 \times \boxed{10} = \boxed{50} = 25 \times 2$     8 fifty-six    9 60 cows, 6 horses, 4 pigs, 50 chickens = 120 animals



# ANSWERS: Units 19 – 23

## Unit 19 Page 28

- 1 a 8 b 27 c 42 d 25 e 32 f 56 2 a 280 b 150 c 600 d 450 e 280 f 480 3 a 1400 b 1600 c 1800 d 4000 e 5400 f 3500 4 a 32 000 b 24 000 c 6000 d 27 000 e 14 000 f 30 000 5 16 6 270 7 6300 8 81 000  
9  $700 \times 7 = 4900$  L

## Unit 20 Page 28

- 1 a 230, 460, 690 b 140, 280, 420 c 760, 1520, 2280 d 340, 680, 1020 e 520, 1040, 1560 f 170, 340, 510  
2 a 200, 400, 600 b 500, 1000, 1500 c 900, 1800, 2700 d 700, 1400, 2100 e 400, 800, 1200 f 800, 1600, 2400  
3 a 3600 b 4000 c 2700 d 2800 e 5400 f 1400 4 a 1200 books b \$560 c 600 students d 3600 words e 1500 biscuits f 700 L of milk 5 260, 520, 780 6 300, 600, 900 7 2500 8 1200 Easter eggs 9 1480 left

## Unit 21 Page 29

- 1 a 15 000 b 16 000 c 24 000 d 45 000 e 27 000 f 28 000 2  
3 a 3600 b 10 000 c 2200 d 35 000 e 8800 f 4200  
4 a 700 b 80 000 c 42 300 d 126 000 e 47 000 f 9300

5 42 000 6

$\times$	10	100	1000
123	1230	12 300	123 000

- 7 8400 8 98 000 9  $519 \times 30 = 15\,570$  students approximately

	$\times$	10	100	1000
a	40	400	4000	40 000
b	70	700	7000	70 000
c	83	830	8300	83 000
d	29	290	2900	29 000
e	200	2000	20 000	200 000
f	167	1670	16 700	167 000

## Unit 22 Page 29

- 1 a 84 b 57 c 378 d 185 e 441 f 324 2 a 447 b 1032 c 1505 d 4950 e 4998 f 4416 3 a 8622 b 7443 c 32 204 d 5960 e 32 112 f 7364 4 a 14 580 b 36 960 c 5350 d 121 800 e 387 000 f 36 000 5 136 6 2740 7 14 728  
8 108 300 9 a 3600 s b 21 600 s c 36 000 s

## Unit 23 Page 30

- 1 a  $520 \times 4 = 2080$  b  $260 \times 4 = 1040$  c  $300 \times 5 = 1500$  d  $830 \times 6 = 4980$  e  $710 \times 7 = 4970$  f  $550 \times 8 = 4400$

- 2 a  $13 \times 61 = (10 \times 61) + (3 \times 61) = 793$  b  $23 \times 47 = (20 \times 47) + (3 \times 47) = 1081$

- c  $29 \times 58 = (20 \times 58) + (9 \times 58) = 1682$  d  $32 \times 76 = (30 \times 76) + (2 \times 76) = 2432$

- e  $17 \times 63 = (10 \times 63) + (7 \times 63) = 1071$  f  $43 \times 85 = (40 \times 85) + (3 \times 85) = 3655$

- 3 a  $27 \times 63 =$   
 $\begin{array}{r} 63 \quad 63 \\ \times 20 \quad \times 7 \\ \hline 1260 \quad + \quad 441 \\ \hline 1701 \end{array}$
- b  $53 \times 87 =$   
 $\begin{array}{r} 87 \quad 87 \\ \times 50 \quad \times 3 \\ \hline 4350 \quad + \quad 261 \\ \hline 4611 \end{array}$
- c  $37 \times 96 =$   
 $\begin{array}{r} 96 \quad 96 \\ \times 30 \quad \times 7 \\ \hline 2880 \quad + \quad 672 \\ \hline 3552 \end{array}$
- d  $47 \times 26 =$   
 $\begin{array}{r} 26 \quad 26 \\ \times 40 \quad \times 7 \\ \hline 1040 \quad + \quad 182 \\ \hline 1222 \end{array}$

- e  $22 \times 78 =$   
 $\begin{array}{r} 78 \quad 78 \\ \times 20 \quad \times 2 \\ \hline 1560 \quad + \quad 156 \\ \hline 1716 \end{array}$
- f  $45 \times 53 =$   
 $\begin{array}{r} 53 \quad 53 \\ \times 40 \quad \times 5 \\ \hline 2120 \quad + \quad 265 \\ \hline 2385 \end{array}$
- 4 a 12 750 b 34 320 c 41 750 d 23 133 e 6734 f 5029  
5  $860 \times 4 = 3440$  6  $17 \times 26 = (10 \times 26) + (7 \times 26) = 442$   
7  $72 \times 75 =$   
 $\begin{array}{r} 75 \quad 75 \\ \times 70 \quad \times 2 \\ \hline 5250 \quad + \quad 150 \\ \hline 5400 \end{array}$  8 8085

- 9  $1126 \times 37 = 41\,662$

# ANSWERS: Units 24 – 28

## Unit 24 Page 30

- 1 a 420 b 1800 c 3200 d 180 e 30 000 f 1500 2 a 120, 1200, 12 000 b 630, 6300, 63 000 c 400, 4000, 40 000  
d 2800, 28 000, 280 000 e 1200, 12 000, 120 000 f 4800, 48 000, 480 000 3 a 28 882 b 66 872 c 4108 d 23 115 e 32 100  
f 39 816 4 a

$$\begin{array}{r} \times 43 \\ 25 \\ \hline \end{array}$$

$$215 (5 \times 43)$$

$$+ \underline{860 (20 \times 43)}$$

$$1075$$

$$\begin{array}{r} \times 73 \\ 48 \\ \hline \end{array}$$

$$584 (8 \times 73)$$

$$+ \underline{2920 (40 \times 73)}$$

$$3504$$

$$\begin{array}{r} \times 96 \\ 37 \\ \hline \end{array}$$

$$672 (7 \times 96)$$

$$+ \underline{2880 (30 \times 96)}$$

$$3552$$

$$\begin{array}{r} \times 65 \\ 53 \\ \hline \end{array}$$

$$195 (3 \times 65)$$

$$+ \underline{3250 (50 \times 65)}$$

$$3445$$

$$\begin{array}{r} \times 59 \\ 17 \\ \hline \end{array}$$

$$413 (7 \times 59)$$

$$+ \underline{590 (10 \times 59)}$$

$$1003$$

$$\begin{array}{r} \times 88 \\ 66 \\ \hline \end{array}$$

$$528 (6 \times 88)$$

$$+ \underline{5280 (60 \times 88)}$$

$$5808$$

$$5 \quad 3200$$

$$8 \quad \begin{array}{r} \times 86 \\ 14 \\ \hline \end{array}$$

$$344 (4 \times 86)$$

$$+ \underline{860 (10 \times 86)}$$

$$1204$$

$$6 \quad 1500, 15 000$$

$$7 \quad 21 380$$

$$9 \quad 1800 \text{ eggs}$$

## Unit 25 Page 31

- 1 a  $\begin{array}{r} \times 92 \\ 17 \\ \hline \end{array}$  b  $\begin{array}{r} \times 73 \\ 25 \\ \hline \end{array}$  c  $\begin{array}{r} \times 56 \\ 49 \\ \hline \end{array}$  d  $\begin{array}{r} \times 28 \\ 75 \\ \hline \end{array}$   
644 ( $7 \times 92$ ) 365 ( $5 \times 73$ ) 504 ( $9 \times 56$ ) 140 ( $5 \times 28$ )  
+  $\underline{920 (10 \times 92)}$  +  $\underline{1460 (20 \times 73)}$  +  $\underline{2240 (40 \times 56)}$  +  $\underline{1960 (70 \times 28)}$   
1564 1825 2744 2100

$$\begin{array}{r} \times 63 \\ 82 \\ \hline \end{array}$$

$$126 (2 \times 63)$$

$$+ \underline{5040 (80 \times 63)}$$

$$5166$$

$$\begin{array}{r} \times 37 \\ 53 \\ \hline \end{array}$$

$$111 (3 \times 37)$$

$$+ \underline{1850 (50 \times 37)}$$

$$1961$$

$$2 \quad a 1152 \quad b 1950 \quad c 1134 \quad d 1012 \quad e 1512 \quad f 969$$

$$3 \quad a 1008 \quad b 4940 \quad c 672 \quad d 1386 \quad e 2075 \quad f 2173$$

$$4 \quad a \$792 \quad b \$1083 \quad c \$1020 \quad d \$680 \quad e \$950 \quad f \$774$$

$$5 \quad \begin{array}{r} \times 45 \\ 63 \\ \hline \end{array}$$

$$135 (3 \times 45)$$

$$+ \underline{2700 (60 \times 45)}$$

$$2835$$

$$6 \quad 3024 \quad 7 \quad 2295 \quad 8 \quad \$507 \quad 9 \quad (32 + 5) \times 12 = \$444$$

## Unit 26 Page 31

- 1 a 816 b 608 c 4171 d 7696 e 46 782 f 32 775 2 a 672 b 1947 c 1875 d 4232 e 5355 f 3196 3 a 32 b 65 c 26  
d 27 e 35 f 19 4 a 1470 bananas b 2241 avocados c 2912 oranges d 198 apples e 3150 mandarins f 1273 pineapples  
5 3266 6 1533 7 43 8 2210 plums 9 19 550 km

## Unit 27 Page 32

- 1 a 14 445 b 23 112 c 15 281 d 19 928 e 3043 f 26 622 2 a \$1106 b \$2028 c \$9812 d \$4500 e \$10 530 f \$213 150  
3 a 247 380 b 166 400 c 60 900 d 134 400 e 170 240 f 183 160 4 a \$1666 b \$4984 c \$5280 d \$3276 e \$2720  
f \$3220 5 32 148 6 \$9724 7 83 430 8 \$3354 9  $179 \times 26 = 4654$  eggs

## Unit 28 Page 32

- 1
- |   |                |     |     |     |      |      |      |       |
|---|----------------|-----|-----|-----|------|------|------|-------|
| a | Divisible by 2 | 302 | 491 | 682 | 1105 | 6234 | 8255 | 95253 |
| b | Divisible by 3 | 173 | 735 | 828 | 1143 | 1276 | 7827 | 23412 |
| c | Divisible by 4 | 423 | 536 | 984 | 1364 | 1649 | 6385 | 26424 |
| d | Divisible by 5 | 105 | 621 | 898 | 1462 | 1700 | 9515 | 83966 |
| e | Divisible by 8 | 256 | 452 | 984 | 1076 | 1935 | 6456 | 73265 |
| f | Divisible by 9 | 198 | 356 | 899 | 1368 | 8753 | 9981 | 12420 |
- 2 a true b false c false d true e false f true  
3 a 1, 12, 2, 6, 3, 4 b 1, 18, 2, 9, 3, 6 c 1, 24, 2, 12, 3, 8, 4, 6  
d 1, 30, 2, 15, 3, 10, 5, 6 e 1, 48, 2, 24, 3, 16, 4, 12, 6, 8  
f 1, 60, 2, 30, 3, 20, 4, 15, 5, 12, 6, 10  
4 a 7, 14, 21, 28, 35, 42, 49, 56 b 6, 12, 18, 24, 30, 36, 42, 48  
c 11, 22, 33, 44, 55, 66, 77, 88 d 12, 24, 36, 48, 60, 72, 84, 96  
e 10, 20, 30, 40, 50, 60, 70, 80 f 8, 16, 24, 32, 40, 48, 56, 64  
5 321, 460, 703, 1011, 4200, 9090, 12345 6 true 7 1, 100, 2, 50, 4, 35, 5, 20, 10 8 9, 18, 27, 36, 45, 54, 63, 72  
9 5000, 1, 2500, 2, 1250, 4, 5, 1000, 8, 625, 10, 500, 20, 250, 25, 200, 40, 125, 50, 100

# ANSWERS: Units 29 – 37

## Unit 29 Page 33

- 1 a 180 b 320 c 420 d 2000 e 1500 f 7200 2 a 80 b 120 c 180 d 230 e 190 f 270 3 a 64 b 72 c 96 d 176 e 264 f 376 4 a 252 b 225 c 370 d 252 e 675 f 2178 5 3600 6 215 7 152 8 1052 9 a 288 b 384 c 528

## Unit 30 Page 33

- 1 a  $30 \times 6 = 180$  b  $50 \times 7 = 350$  c  $50 \times 5 = 250$  d  $100 \times 9 = 900$  e  $200 \times 8 = 1600$  f  $300 \times 4 = 1200$   
 2 a  $80 \times 20 = 1600$  b  $50 \times 30 = 1500$  c  $40 \times 60 = 2400$  d  $40 \times 20 = 800$  e  $50 \times 70 = 3500$  f  $30 \times 70 = 2100$   
 3 a  $80 \times 400 = 32\,000$  b  $80 \times 700 = 56\,000$  c  $20 \times 500 = 10\,000$  d  $600 \times 10 = 6000$  e  $40 \times 600 = 24\,000$   
 f  $60 \times 900 = 54\,000$  4 a 30 000, 29 281 b 16 000, 14 668 c 9000, 11 303 d 14 000, 14 076 e 12 000, 13 317  
 f 15 000, 11 475 5  $400 \times 7 = 2800$  6  $70 \times 30 = 2100$  7  $60 \times 400 = 24\,000$  8 28 000, 25 467  
 9  $23 \times 379 \approx 20 \times 400 = 8000$  newspapers

## Unit 31 Page 34

- 1 a 9, 8 b 6, 5 c 7, 4 d 12, 8 e 8, 6 f 12, 3 2 a 9 b 8 c 1 d 8 e 7 f 10 3 a 2 b 9 c 10 d 12 e 8 f 9  
 4 a 32 b 9 c 12 d 23 e 22 f 12 5 12, 6 6 12 7 0 8 11 9 41 pencils in each box

## Unit 32 Page 34

- 1 a 6 b 4 c 3 d 12 e 2 f 8 2 a 4 r 4 b 3 r 3 c 2 r 6 d 2 r 4 e 1 r 4 f 2 r 2 3 a 60 b 90 c 40 d 50 e 50 f 40

4

	Question	Quotient	Remainder
	$20 \div 3$	6	2
a	$30 \div 4$	7	2
b	$51 \div 7$	7	2
c	$38 \div 4$	9	2
d	$40 \div 9$	4	4
e	$55 \div 10$	5	5
f	$63 \div 6$	10	3

5 4 6 2 r 2 7 70 8

Question	Quotient	Remainder
$14 \div 6$	2	2

9

Question	Quotient	Remainder
$32 \div 6$	5	2
$14 \div 8$	1	6
$28 \div 3$	9	1
$60 \div 7$	8	4

## Unit 33 Page 35

- 1 a 8 r 4 b 13 r 1 c 7 r 7 d 4 r 6 e 6 r 8 f 8 r 2 2 a 324 b 123 c 112 d 122 e 132 f 126 3 a 72 r 2 b 65 r 5  
 c 109 r 2 d 330 r 4 e 3008 r 2 f 303 r 8 4 a \$46.50 b 82 with 5 eggs over c 159 cars with 3 tyres over d 106 mL e 197 cm  
 f 1342 tacks with 1 left over 5 8 r 3 6 235 7 580 r 5 8 1071 letters 9  $\frac{48 + 52 + 64}{3} = 54.67$  cm

## Unit 34 Page 35

- 1 a 1 b 1 r 1 c 2 d 1 r 2 e 2 r 2 f 4 r 3 2 a  $21\frac{1}{2}$  b  $10\frac{1}{3}$  c  $7\frac{1}{4}$  d  $13\frac{2}{6} = 13\frac{1}{3}$  e  $18\frac{4}{5}$  f  $7\frac{1}{7}$   
 3 a  $150\frac{2}{6} = 150\frac{1}{3}$  b  $125\frac{3}{4}$  c  $89\frac{6}{7}$  d  $74\frac{2}{8} = 74\frac{1}{4}$  e  $28\frac{4}{9}$  f  $86\frac{3}{5}$  4 a  $1210\frac{5}{6}$  b  $1206\frac{2}{8} = 1206\frac{1}{4}$  c  $1823\frac{2}{3}$   
 $6 \overline{)9^3 02}$   $4 \overline{)5^1 0^2 3}$   $7 \overline{)62^6 9}$   $8 \overline{)59^3 4}$   $9 \overline{)25^7 6}$   $5 \overline{)43^3 3}$   $6 \overline{)7^1 265}$   $8 \overline{)9^1 650}$   $3 \overline{)5^2 47^1 1}$   
 d  $1335\frac{5}{7}$  e  $274\frac{2}{9}$  f  $1340\frac{3}{4}$  5 3 r 1 6  $9\frac{3}{8}$  7  $82\frac{1}{3}$  8  $1061\frac{2}{5}$  9 a  $\frac{7}{10}$  b  $\frac{1}{4}$  c  $\frac{5}{7}$

## Unit 35 Page 36

- 1 a 39 b 85 c 40 d  $67\frac{1}{10}$  e  $34\frac{9}{10}$  f 85 2 a 1045 b 1011 c 912 d 1202 e 703 f 2090 3 a  $503\frac{1}{4}$  b  $1403\frac{4}{5}$  c 535  
 d  $10\,200\frac{1}{3}$  e  $8826\frac{7}{8}$  f 6017 4 a 709 in each row b \$195 each c 207 in each pile d 102 per rack e 507 trays f 1201 weeks  
 5  $25\frac{9}{10}$  6 1002 7  $306\frac{1}{7}$  8 834 lengths 9 51 523

## Unit 36 Page 36

- 1 a 430.1 b 743.8 c 506 d 849.7 e 663.5 f 901 2 a 436 b 2107 c 4600 d 2104 e 3911 f 6127 3 a 2468 b 7102  
 c 8763 d 19 041.6 e 48 795.1 f 84 731.5 4 a 960 cm b 1750 cm c 49 cm d 871 cm e 3842 cm f 112 cm 5 437.1  
 6 1426 7 47 180.5 8 3910 cm 9 35 000 boxes

## Unit 37 Page 37

- 1 a 576 b 249 c 310 d 2300 e 4690 f 4870 2 a 21 b 37 c 29 d 480 e 520 f 390 3 a 21 b 120 c 70 d 600 e 119  
 f 30 4 a 33.7 b 35.5 c 35.7 d 95.4 e 92.7 f 182.2 5 432 6 107 7 30 8 33.8 9 a 154.375, 154 b 168.64, 169

# ANSWERS: Units 38 – 44

## Unit 38 Page 37

- 1 a 1438 b 518 c 1443 d 484 e 1062 f 1035 2 a 9022.71 b 3162 c 5948.5 d 4268.1 e 7940.3 f 8436.6  
 3 a 500 students b 706 L in each container c 149 265 m<sup>2</sup> per paddock d 11 598 km e 141 t per boat f 66 points  
 4 a 3702 b 6126 c 4417 d 7218 e 8464 f 5912 5 711 6 5790.13 7 \$1787 8 8655 9 16 896

## Unit 39 Page 38

1 a 
$$\begin{array}{r} 24 \\ 12 \overline{) 288} \\ \underline{- 24} \phantom{0} \\ 48 \\ \underline{- 48} \\ 0 \end{array}$$
 b 
$$\begin{array}{r} 141 \\ 8 \overline{) 1128} \\ \underline{- 8} \phantom{00} \\ 32 \\ \underline{- 32} \\ 8 \\ \underline{- 8} \\ 0 \end{array}$$
 c 
$$\begin{array}{r} 44 \\ 11 \overline{) 484} \\ \underline{- 44} \phantom{0} \\ 44 \\ \underline{- 44} \\ 0 \end{array}$$
 d 
$$\begin{array}{r} 12 \\ 14 \overline{) 168} \\ \underline{- 14} \phantom{0} \\ 28 \\ \underline{- 28} \\ 0 \end{array}$$
 e 
$$\begin{array}{r} 13 \\ 22 \overline{) 286} \\ \underline{- 22} \phantom{0} \\ 6 \\ \underline{- 6} \\ 0 \end{array}$$
 f 
$$\begin{array}{r} 13 \\ 31 \overline{) 403} \\ \underline{- 31} \phantom{0} \\ 93 \\ \underline{- 93} \\ 0 \end{array}$$

- 2 a 31 r 2 b 17 r 6 c 38 r 2 d 12 e 10 r 20 f 48 r 1 3 a 16 r 11 b 50 c 19 r 21 d 11 r 4 e 49 f 5 r 8 4 a 275 b 646  
 c 365 d 1369 e 951 f 9723 5 
$$\begin{array}{r} 83 \\ 6 \overline{) 498} \\ \underline{- 48} \phantom{0} \\ 18 \\ \underline{- 18} \\ 0 \end{array}$$
 6 37 r 9 7 11 r 10 8 487 9 15 cartons with 4 eggs left over

## Unit 40 Page 38

- 1 a 5 b 13 c 50 d 100 e 162.5 f 7.5 2 a 5 b 38 c  $22\frac{1}{3}$  d 449 e \$3.43 f \$9.00 3 a 50 b 0.9 c 2.4 d 252 e 2.5  
 f 1200 4 a 25°C b 27°C c 24.3°C d 20.5°C e 25.2°C f 23.86°C 5 21.5 6 32 7 2 8 23.3°C 9 example: 26, 27, 28

## Unit 41 Page 39

- 1 a 38.5 b 37.5 c 9.25 d 49.6 e 59.25 f 79.2 2 a 10 b 78 c 10 d 21 e 50 f 20

3

	Team	Score	Average
a	Numbers	0, 3, 4, 2, 1, 2	2
b	Totals	6, 5, 2, 1, 3, 1	3
c	Dividers	0, 2, 1, 3, 0, 0	1
d	Multipliers	4, 6, 3, 7, 1, 3	4
e	Adders	5, 7, 3, 9, 1, 2	4.5
f	Subtractors	5, 6, 7, 8, 3, 3	5.3

- 4 a 31.25°C b 116 marbles c 31.8 runs d 13.6 fruit e 10.7 pencils  
 f 81.8 matches 5 49.6 6 16 7 


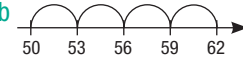

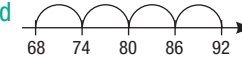



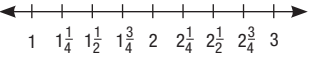
Team	Score	Average
Powers	4, 7, 3, 8, 5, 3	5

 8 \$22.20 9 17

## Unit 42 Page 39

- 1 a correct b 171 c correct d 293 e 1378 f correct 2 a 20 b correct c 3 d correct e correct f correct 3 a false b true  
 c false d true e true f false 4 a D b F c E d A e C f B 5 1791 6 correct 7 true 8  $12 \times 8 = *$  9 16 birds

## Unit 43 Page 40

1 a  b  c  d  e   
 f  2 a 739 b 1258 c 1194 d 2066 e 1407 f 2797 3 a 291 b 441 c 66 d 689 e 219 f 934  
 4 a 78 b 110 c 225 d 15 e 17 f 26 5  6 5787 7 1889 8 210 9 a 

## Unit 44 Page 40

- 1 a 150 b 36 c 33 d 16 e 27 f 77 2 a 36 b 33 c 18 d 10 e 8 f 8 3 a 35 b 41 c 56 d 80 e 7 f 24  
 4 a 52 b 3 c 53 d 197 e 2 f 56 5 41 6 15 7 83 8 72 9  $17 + (3 + 5) \times 4 = 16 - 7 + (8 \times 5) = 49$