

Excel
Basic Skills

Times Tables 2

3-4 Years

Ages
8-10

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Bev Dunbar



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Set 1: Draw and Count

- 1 a** Draw 1 circle.
Put 11 dots inside.
How many dots altogether?

$$1 \times 11 = \dots\dots\dots$$

- b** Draw 2 squares.
Put 11 crosses in each one.
How many crosses altogether?

$$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$$

- c** Draw 3 triangles.
Draw 11 sticks in each one.
How many sticks altogether?

$$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$$

- 2 a** Counting by 11s is easy. Continue counting by 11s here.

0 11 22

- b** This time write the 11s pattern backwards starting at 110.

110 99 88

*Look at both digits in each number.
Look at the last digit in each number.
Add the digits in each number.
What patterns can you see?*



Set 2: All the Same

Remember we can multiply in many different ways.

$11 + 11 + 11 + 11 + 11$

5 times 11

5×11



5 groups of 11

the product of 5 and 11



five elevens

Remember that if you know $5 \times 11 = 55$, you also know that $11 \times 5 = 55$.

1 Write the two ways to multiply these numbers:

a $8 \times 11 = \dots\dots\dots$

b $4 \times 11 = \dots\dots\dots$

$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$

$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$

c $10 \times 11 = \dots\dots\dots$

d $2 \times 11 = \dots\dots\dots$

$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$

$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$

2 Write a story.

Finish each number sentence and write a word problem to match.

| | |
|--|--|
| <p>a $3 \times 11 = \dots\dots\dots$</p> | <p>b $5 \times 11 = \dots\dots\dots$</p> |
|--|--|



Close your eyes. Try to count silently by 11s starting at 11 and finishing at 110. Open your eyes. Count aloud by 11s. Can you reach 110 in less than 60 seconds?

Set 3: Write it

1 Write the number sentence to match each problem.

| | |
|--|--|
| <p>a There are 9 birds. Each bird has 11 worms. How many worms altogether?</p> <p>.....</p> | <p>b There are 4 houses. Each house has 11 rooms. How many rooms altogether?</p> <p>.....</p> |
|--|--|

2 Circle the matching answer to the number sentence.

- | | |
|--------------------------------------|--------------------------------------|
| a $1 \times 11 = 10$ 11 12 | b $6 \times 11 = 46$ 56 66 |
| c $9 \times 11 = 18$ 96 99 | d $4 \times 11 = 44$ 46 48 |
| e $2 \times 11 = 22$ 32 20 | f $7 \times 11 = 70$ 77 79 |

3 Count by 11s. Fill in the missing numbers.

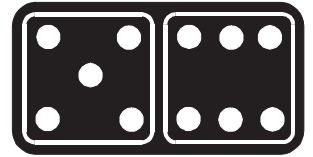
a

b

What's the product of 7 and 11?



Set 4: Challenge



1 How quickly can you find these answers?

a $6 \times 11 = \dots\dots\dots$ **b** $10 \times 11 = \dots\dots\dots$ **c** $8 \times 11 = \dots\dots\dots$ **d** $0 \times 11 = \dots\dots\dots$

e $3 \times 11 = \dots\dots\dots$ **f** $4 \times 11 = \dots\dots\dots$ **g** $5 \times 11 = \dots\dots\dots$ **h** $9 \times 11 = \dots\dots\dots$

Number of seconds

2 Can you do these mixed facts just using your head? Yes / No

a $0 \times 11 = \dots\dots\dots$ **b** $11 \times 4 = \dots\dots\dots$ **c** $5 \times 11 = \dots\dots\dots$ **d** $11 \times 3 = \dots\dots\dots$

e $11 \times 2 = \dots\dots\dots$ **f** $7 \times 11 = \dots\dots\dots$ **g** $11 \times 1 = \dots\dots\dots$ **h** $6 \times 11 = \dots\dots\dots$

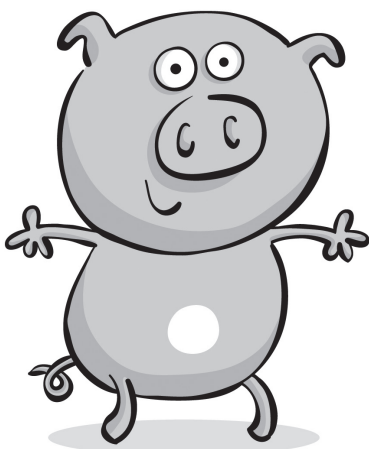
Number of seconds

3 Fill in this grid. Can you complete it in less than 40 seconds?

| × | 3 | 8 | 10 | 2 | 4 | 7 | 5 | 9 | 0 | 1 |
|----|---|---|----|---|---|---|---|---|---|---|
| 11 | | | | | | | | | | |

Number of seconds

4 What's my rule?

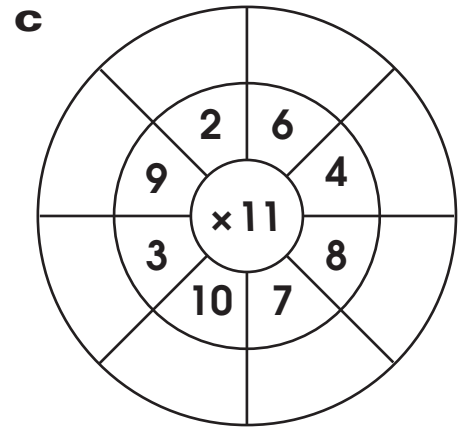
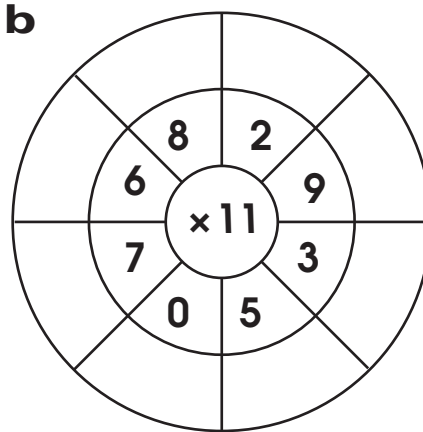
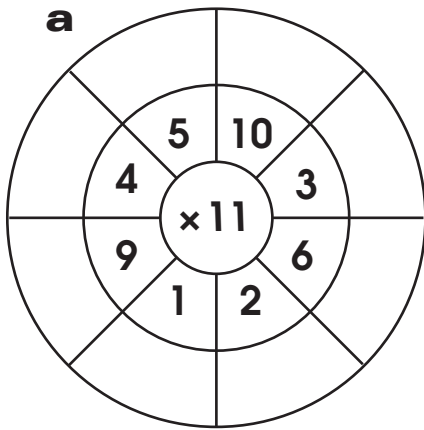


Multiply by 11 and add

| | | | | | | | |
|----|----|-----|----|---|---|---|---|
| 6 | 3 | 9 | 10 | 2 | 5 | 7 | 4 |
| 75 | 42 | 108 | | | | | |

Set 5: Number Wheels

1 Write the answers in the outer spaces.



2 Fill in the missing numbers to make the number sentences true.

a $\boxed{11} \times \boxed{} + \boxed{6} = \boxed{39}$

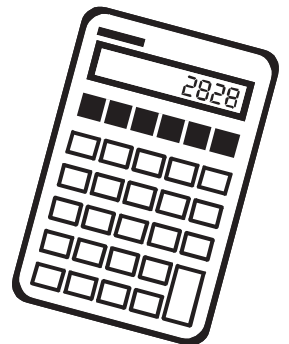
b $\boxed{} \times \boxed{7} - \boxed{4} = \boxed{73}$

c $\boxed{8} \times \boxed{} + \boxed{3} = \boxed{91}$

d $\boxed{11} \times \boxed{9} - \boxed{} = \boxed{89}$

3 Use a calculator to discover and predict this pattern.

$$\begin{aligned}
 1 \times 1 &= \dots\dots\dots \\
 11 \times 11 &= \dots\dots\dots \\
 111 \times 111 &= \dots\dots\dots \\
 1111 \times 1111 &= \dots\dots\dots \\
 11111 \times 11111 &= \dots\dots\dots
 \end{aligned}$$



Set 6: Beat the Clock



- 1 Try to complete each grid in less than 40 seconds.
Record your times.

a

| | | | | | | | | | | |
|----|---|---|---|----|---|---|---|---|---|---|
| x | 4 | 1 | 2 | 10 | 6 | 7 | 8 | 5 | 0 | 3 |
| 11 | | | | | | | | | | |

Number of seconds

b

| | | | | | | | | | | |
|----|---|---|---|---|---|----|---|---|---|---|
| x | 5 | 7 | 2 | 0 | 4 | 10 | 8 | 3 | 9 | 6 |
| 11 | | | | | | | | | | |

Number of seconds

c

| | | | | | | | | | | |
|----|---|---|---|---|----|---|---|---|---|---|
| x | 7 | 8 | 1 | 5 | 10 | 3 | 2 | 6 | 9 | 4 |
| 11 | | | | | | | | | | |

Number of seconds

d

| | | | | | | | | | | |
|----|---|---|---|---|---|---|---|----|---|---|
| x | 5 | 3 | 2 | 6 | 7 | 8 | 4 | 10 | 9 | 0 |
| 11 | | | | | | | | | | |

Number of seconds

e

| | | | | | | | | | | |
|----|---|---|---|---|---|----|---|---|---|---|
| x | 2 | 4 | 3 | 8 | 7 | 10 | 5 | 9 | 1 | 6 |
| 11 | | | | | | | | | | |

Number of seconds

Set 7: Race Yourself



Finish each set of 10 mixed multiplication questions as quickly as you can. Try to get faster each time.

- | | | |
|---------------------------------------|--------------------------------------|--------------------------------------|
| A 1 $5 \times 11 = \dots\dots$ | B 1 $7 \times 9 = \dots\dots$ | C 1 $4 \times 8 = \dots\dots$ |
| 2 $11 \times 8 = \dots\dots$ | 2 $9 \times 10 = \dots\dots$ | 2 $8 \times 8 = \dots\dots$ |
| 3 $10 \times 11 = \dots\dots$ | 3 $4 \times 9 = \dots\dots$ | 3 $7 \times 8 = \dots\dots$ |
| 4 $11 \times 4 = \dots\dots$ | 4 $9 \times 2 = \dots\dots$ | 4 $8 \times 2 = \dots\dots$ |
| 5 $6 \times 11 = \dots\dots$ | 5 $3 \times 9 = \dots\dots$ | 5 $1 \times 8 = \dots\dots$ |
| 6 $11 \times 2 = \dots\dots$ | 6 $9 \times 8 = \dots\dots$ | 6 $8 \times 9 = \dots\dots$ |
| 7 $3 \times 11 = \dots\dots$ | 7 $6 \times 9 = \dots\dots$ | 7 $10 \times 8 = \dots\dots$ |
| 8 $11 \times 7 = \dots\dots$ | 8 $9 \times 9 = \dots\dots$ | 8 $8 \times 3 = \dots\dots$ |
| 9 $9 \times 11 = \dots\dots$ | 9 $5 \times 9 = \dots\dots$ | 9 $6 \times 8 = \dots\dots$ |
| 10 $11 \times 1 = \dots\dots$ | 10 $9 \times 0 = \dots\dots$ | 10 $8 \times 5 = \dots\dots$ |

Time Score/10 Time Score/10 Time Score/10

- | | | |
|--------------------------------------|--------------------------------------|---------------------------------------|
| D 1 $2 \times 7 = \dots\dots$ | E 1 $1 \times 6 = \dots\dots$ | F 1 $7 \times 10 = \dots\dots$ |
| 2 $7 \times 8 = \dots\dots$ | 2 $6 \times 5 = \dots\dots$ | 2 $10 \times 3 = \dots\dots$ |
| 3 $5 \times 7 = \dots\dots$ | 3 $10 \times 6 = \dots\dots$ | 3 $8 \times 10 = \dots\dots$ |
| 4 $7 \times 10 = \dots\dots$ | 4 $6 \times 4 = \dots\dots$ | 4 $10 \times 2 = \dots\dots$ |
| 5 $6 \times 7 = \dots\dots$ | 5 $2 \times 6 = \dots\dots$ | 5 $1 \times 10 = \dots\dots$ |
| 6 $7 \times 4 = \dots\dots$ | 6 $6 \times 0 = \dots\dots$ | 6 $10 \times 10 = \dots\dots$ |
| 7 $0 \times 7 = \dots\dots$ | 7 $6 \times 6 = \dots\dots$ | 7 $9 \times 10 = \dots\dots$ |
| 8 $7 \times 7 = \dots\dots$ | 8 $6 \times 8 = \dots\dots$ | 8 $10 \times 6 = \dots\dots$ |
| 9 $1 \times 7 = \dots\dots$ | 9 $7 \times 6 = \dots\dots$ | 9 $4 \times 10 = \dots\dots$ |
| 10 $7 \times 3 = \dots\dots$ | 10 $6 \times 9 = \dots\dots$ | 10 $10 \times 5 = \dots\dots$ |

Time Score/10 Time Score/10 Time Score/10

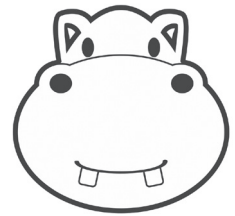


What's six times eleven?

.....

Set 8:

Try to complete each mixed group in less than 30 seconds.



1 a × 11 = 55 **b** 3 × = 21 **c** 3 × 6 = **d** × 10 = 80

e 8 × 6 = **f** × 9 = 72 **g** × 4 = 36 **h** 5 × = 25

Number of seconds

2 a 5 × = 5 **b** × 6 = 42 **c** × 5 = 45 **d** × 3 = 30

e × 11 = 33 **f** 10 × 4 = **g** 8 × = 56 **h** 0 × 8 =

Number of seconds

3 a × 2 = 14 **b** 8 × 3 = **c** 10 × 4 = **d** 5 × = 45

e 4 × 11 = **f** 6 × = 30 **g** 8 × = 56 **h** × 6 = 12

Number of seconds

4 a 4 × = 0 **b** 6 × 3 = **c** 6 × 11 = **d** × 4 = 36

e × 2 = 4 **f** 7 × = 28 **g** 6 × = 42 **h** 3 × = 27

Number of seconds

5 a 5 × 8 = **b** × 8 = 40 **c** × 5 = 40 **d** 9 × = 0

e × 1 = 9 **f** 7 × = 77 **g** 2 × = 22 **h** × 1 = 8

Number of seconds

6 a 7 × 3 = **b** 5 × = 30 **c** 7 × = 49 **d** × 5 = 40

e × 4 = 4 **f** × 6 = 36 **g** × 2 = 12 **h** 8 × = 88

Number of seconds

Set 1: Draw and Count

- 1 a** Draw 1 oblong.
Put 12 eggs inside.
How many eggs altogether?

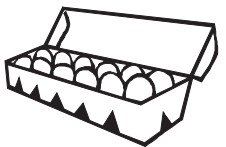
$1 \times 12 = \dots\dots\dots$

- b** Draw 2 houses.
Put 12 windows in each house.
How many windows altogether?

$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$

- c** Draw 3 cats.
Give each cat 12 whiskers.
How many whiskers altogether?

$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$



- 2 a** Continue counting by 12s here.

0 12 24
.....
.....
.....

- b** Write the 12s pattern backwards starting at 120.

120 108 96
.....
.....



*Look at the last digit in each number.
Add the digits in each number.
What patterns can you see?*

Set 2: All the Same

Remember we can multiply in many different ways.

$12 + 12$

2 times 12

2×12



2 groups of 12



the product of 2 and 12

two twelves

If you know $2 \times 12 = 24$, you also know that $12 \times 2 = 24$.

1 Write the 2 ways to multiply these numbers:

a $4 \times 12 = \dots\dots\dots$

$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$

b $5 \times 12 = \dots\dots\dots$

$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$

c $6 \times 12 = \dots\dots\dots$

$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$

d $7 \times 12 = \dots\dots\dots$

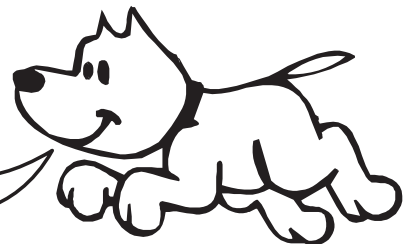
$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$

2 What is your story?

Finish each number sentence and write a word problem to match.

$9 \times 12 = \dots\dots\dots$

Close your eyes. Try to count silently by 12s starting at 12 and finishing at 120. Open your eyes. Count aloud by 12s. Can you reach 120 in less than 90 seconds?



Set 3: Write it

1 Write the number sentence to match each problem.

| | |
|---|--|
| <p>a There are 3 circuses. Each circus has 12 clowns. How many clowns altogether? </p> | <p>b There are 6 houses. Each house has 12 rooms. How many rooms altogether? </p> |
|---|--|

2 Circle the number which is the answer to the number sentence.

a $3 \times 12 = 15$ 36 30

b $2 \times 12 = 34$ 14 24

c $7 \times 12 = 84$ 96 86

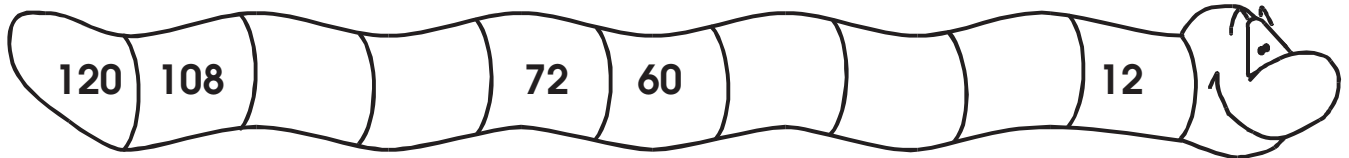
d $8 \times 12 = 96$ 90 106

e $10 \times 12 = 100$ 110 120

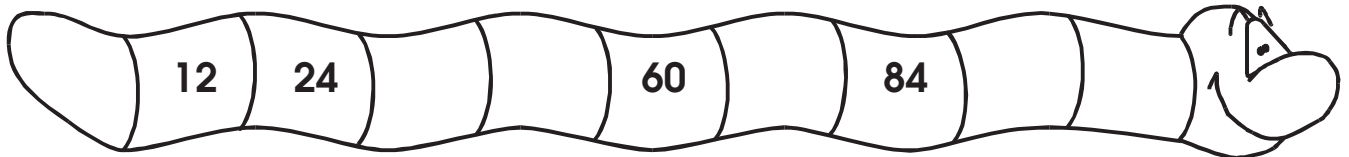
f $5 \times 12 = 60$ 66 70

3 Fill in the missing numbers.

a



b



How many clowns in 5 groups of 12 clowns?



Set 4: Challenge

1 How quickly can you find these answers?

a $3 \times 12 = \dots\dots\dots$ **b** $7 \times 12 = \dots\dots\dots$ **c** $2 \times 12 = \dots\dots\dots$ **d** $10 \times 12 = \dots\dots\dots$

e $0 \times 12 = \dots\dots\dots$ **f** $5 \times 12 = \dots\dots\dots$ **g** $9 \times 12 = \dots\dots\dots$ **h** $4 \times 12 = \dots\dots\dots$

Number of seconds

2 Can you do these mixed facts just using your head? Yes / No

a $4 \times 12 = \dots\dots\dots$ **b** $12 \times 8 = \dots\dots\dots$ **c** $9 \times 12 = \dots\dots\dots$ **d** $12 \times 5 = \dots\dots\dots$

e $12 \times 7 = \dots\dots\dots$ **f** $3 \times 12 = \dots\dots\dots$ **g** $12 \times 2 = \dots\dots\dots$ **h** $10 \times 12 = \dots\dots\dots$

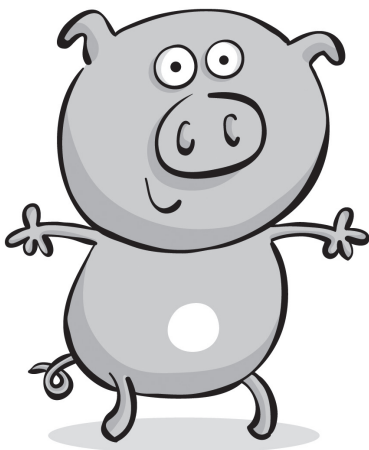
Number of seconds

3 Fill in this grid. Can you complete it in less than 60 seconds?

| | | | | | | | | | | |
|-----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|
| × | 4 | 7 | 1 | 10 | 2 | 9 | 5 | 6 | 3 | 0 |
| 12 | | | | | | | | | | |

Number of seconds

4 What's my rule?

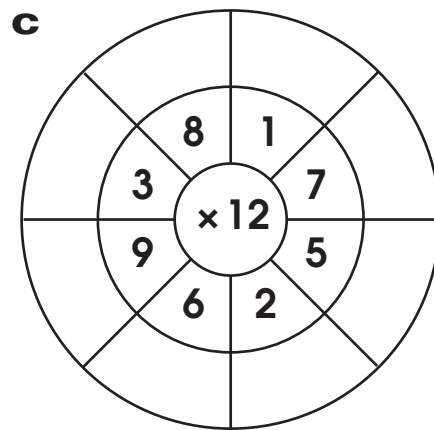
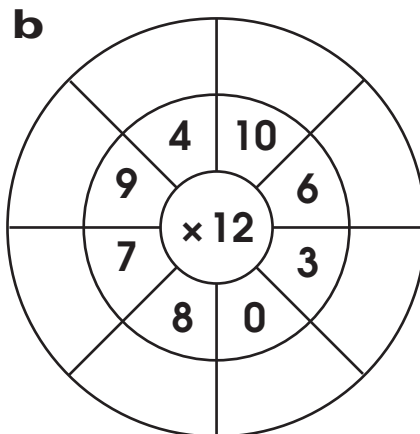
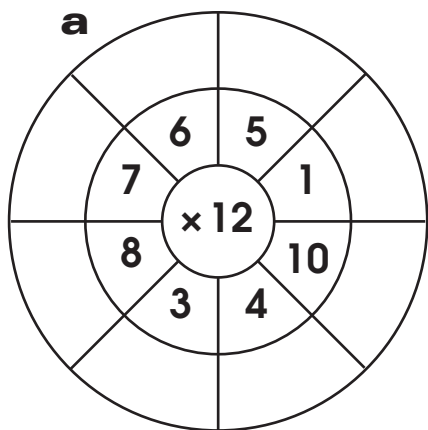


Multiply by and add 7.

| | | | | | | | |
|----|----|-----|---|---|---|---|---|
| 5 | 2 | 10 | 6 | 8 | 3 | 7 | 4 |
| 67 | 31 | 127 | | | | | |

Set 5: Number Wheels

1 Write the answers in the outer spaces.



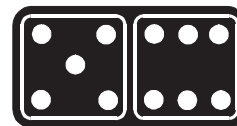
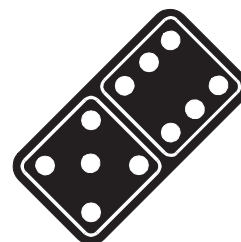
2 Fill in the missing numbers to make the number sentences true.

a $\boxed{12} \times \boxed{} + \boxed{5} = \boxed{53}$

b $\boxed{8} \times \boxed{} - \boxed{7} = \boxed{89}$

c $\boxed{9} \times \boxed{12} + \boxed{} = \boxed{116}$

d $\boxed{} \times \boxed{4} - \boxed{9} = \boxed{39}$



3 Finish each of these mixed counting patterns.

a 6 12 18

b 9 18 27

c 5 10 15

d 7 14 21

e 8 16 24

Set 6: Beat the Clock



- 1 Try to complete each grid in less than 30 seconds.
Record your times.

a

| | | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|----|---|
| x | 7 | 5 | 3 | 6 | 2 | 9 | 0 | 1 | 10 | 4 |
| 12 | | | | | | | | | | |

Number of seconds

b

| | | | | | | | | | | |
|----|---|----|---|---|---|---|---|---|---|---|
| x | 4 | 10 | 1 | 7 | 2 | 9 | 6 | 3 | 0 | 8 |
| 12 | | | | | | | | | | |

Number of seconds

c

| | | | | | | | | | | |
|----|---|---|---|---|---|---|---|----|---|---|
| x | 3 | 8 | 1 | 2 | 6 | 7 | 5 | 10 | 4 | 9 |
| 12 | | | | | | | | | | |

Number of seconds

d

| | | | | | | | | | | |
|----|---|---|---|---|----|---|---|---|---|---|
| x | 2 | 5 | 3 | 8 | 10 | 7 | 6 | 1 | 9 | 4 |
| 12 | | | | | | | | | | |

Number of seconds

e

| | | | | | | | | | | |
|----|---|----|---|---|---|---|---|---|---|---|
| x | 7 | 10 | 5 | 2 | 4 | 3 | 8 | 0 | 1 | 6 |
| 12 | | | | | | | | | | |

Number of seconds

Set 7: Race Yourself



Finish each set of 10 questions as quickly as you can.
Try to get faster each time.

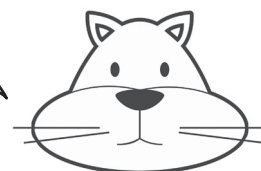
- | | | |
|---------------------------------------|---------------------------------------|--------------------------------------|
| A 1 $5 \times 12 = \dots\dots$ | B 1 $7 \times 11 = \dots\dots$ | C 1 $4 \times 7 = \dots\dots$ |
| 2 $12 \times 8 = \dots\dots$ | 2 $11 \times 10 = \dots\dots$ | 2 $7 \times 8 = \dots\dots$ |
| 3 $10 \times 12 = \dots\dots$ | 3 $4 \times 11 = \dots\dots$ | 3 $7 \times 7 = \dots\dots$ |
| 4 $12 \times 4 = \dots\dots$ | 4 $11 \times 2 = \dots\dots$ | 4 $7 \times 2 = \dots\dots$ |
| 5 $6 \times 12 = \dots\dots$ | 5 $3 \times 11 = \dots\dots$ | 5 $1 \times 7 = \dots\dots$ |
| 6 $2 \times 12 = \dots\dots$ | 6 $11 \times 8 = \dots\dots$ | 6 $7 \times 9 = \dots\dots$ |
| 7 $3 \times 12 = \dots\dots$ | 7 $6 \times 11 = \dots\dots$ | 7 $10 \times 7 = \dots\dots$ |
| 8 $12 \times 7 = \dots\dots$ | 8 $11 \times 9 = \dots\dots$ | 8 $7 \times 3 = \dots\dots$ |
| 9 $9 \times 12 = \dots\dots$ | 9 $5 \times 11 = \dots\dots$ | 9 $6 \times 7 = \dots\dots$ |
| 10 $12 \times 1 = \dots\dots$ | 10 $11 \times 0 = \dots\dots$ | 10 $7 \times 5 = \dots\dots$ |

Time Score/10 Time Score/10 Time Score/10

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| D 1 $2 \times 8 = \dots\dots$ | E 1 $1 \times 9 = \dots\dots$ | F 1 $7 \times 6 = \dots\dots$ |
| 2 $8 \times 8 = \dots\dots$ | 2 $9 \times 5 = \dots\dots$ | 2 $6 \times 3 = \dots\dots$ |
| 3 $5 \times 8 = \dots\dots$ | 3 $10 \times 9 = \dots\dots$ | 3 $8 \times 6 = \dots\dots$ |
| 4 $8 \times 10 = \dots\dots$ | 4 $9 \times 4 = \dots\dots$ | 4 $6 \times 2 = \dots\dots$ |
| 5 $6 \times 8 = \dots\dots$ | 5 $3 \times 9 = \dots\dots$ | 5 $1 \times 6 = \dots\dots$ |
| 6 $8 \times 4 = \dots\dots$ | 6 $9 \times 0 = \dots\dots$ | 6 $6 \times 10 = \dots\dots$ |
| 7 $0 \times 8 = \dots\dots$ | 7 $6 \times 9 = \dots\dots$ | 7 $9 \times 6 = \dots\dots$ |
| 8 $8 \times 7 = \dots\dots$ | 8 $9 \times 8 = \dots\dots$ | 8 $6 \times 6 = \dots\dots$ |
| 9 $1 \times 8 = \dots\dots$ | 9 $7 \times 9 = \dots\dots$ | 9 $4 \times 6 = \dots\dots$ |
| 10 $8 \times 3 = \dots\dots$ | 10 $9 \times 9 = \dots\dots$ | 10 $6 \times 5 = \dots\dots$ |

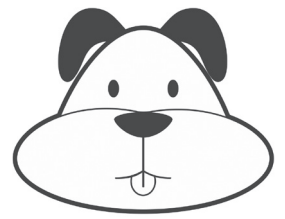
Time Score/10 Time Score/10 Time Score/10

What's the product of 10 and 12?



Set 8:

Try to complete each mixed group in less than 25 seconds.



1 a × 12 = 72 **b** 3 × = 24 **c** 7 × 6 = **d** × 10 = 60

e 8 × 9 = **f** × 11 = 99 **g** × 4 = 20 **h** 5 × = 15

Number of seconds

2 a 4 × = 12 **b** × 2 = 12 **c** × 6 = 48 **d** × 3 = 18

e × 12 = 48 **f** 11 × 4 = **g** 7 × = 49 **h** 4 × 8 =

Number of seconds

3 a × 3 = 21 **b** 9 × 3 = **c** 12 × 4 = **d** 5 × = 45

e 5 × 11 = **f** 7 × = 63 **g** 8 × = 56 **h** × 7 = 35

Number of seconds

4 a 4 × = 40 **b** 6 × 7 = **c** 3 × 12 = **d** × 6 = 30

e × 1 = 7 **f** 8 × = 96 **g** 6 × = 18 **h** 3 × = 36

Number of seconds

5 a 5 × 9 = **b** × 8 = 40 **c** × 9 = 45 **d** 10 × = 0

e × 7 = 56 **f** 9 × = 99 **g** 2 × = 16 **h** × 2 = 8

Number of seconds

6 a 7 × 8 = **b** 3 × = 18 **c** 8 × = 72 **d** × 5 = 15

e × 6 = 24 **f** × 6 = 66 **g** × 2 = 24 **h** 4 × = 44

Number of seconds

UNIT 6: $\times 11$

Page 51 Set 1: Draw and Count

- 1 a $1 \times 11 = 11$, 11 dots
 b $2 \times 11 = 22$, 22 crosses
 c $3 \times 11 = 33$, 33 sticks
- 2 a 0 11 22 33 44 55 66 77 88 99 110
 b 110 99 88 77 66 55 44 33 22 11 0

Quick question: answers will vary (e.g. both digits are the same, the last digits go up by 1 each time, the digits add to even numbers in order 0 2 4 6 8 then to odd numbers in order 1 3 5 7 9 ...).

Page 52 Set 2: All the Same

- 1 a 88, $11 \times 8 = 88$
 b 44, $11 \times 4 = 44$
 c 110, $11 \times 10 = 110$
 d 22, $11 \times 2 = 22$
- 2 a $3 \times 11 = 33$ (story will vary)
 b $5 \times 11 = 55$ (story will vary)
- Quick question: count 11 22 33 44 55 66 77 88 99 110.

Page 53 Set 3: Write it

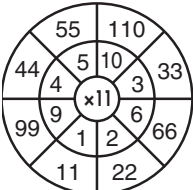
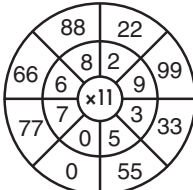
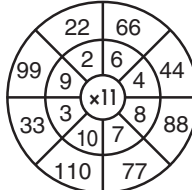
- 1 a $9 \times 11 = 99$, 99 worms
 b $4 \times 11 = 44$, 44 rooms
- 2 a $1 \times 11 = 11$
 b $6 \times 11 = 66$
 c $9 \times 11 = 99$
 d $4 \times 11 = 44$
 e $2 \times 11 = 22$
 f $7 \times 11 = 77$
- 3 a 110 99 88 77 66 55 44 33 22 11
 b 0 11 22 33 44 55 66 77 88 99

Quick question: the product is 77.

Page 54 Set 4: Challenge

- 1 a 66 b 110 c 88 d 0 e 33 f 44 g 55 h 99
- 2 a 0 b 44 c 55 d 33 e 22 f 77 g 11 h 66
- 3 33 88 110 22 44 77 55 99 0 11
- 4 Multiply by 11 and add 9;
 75 42 108 119 31 64 86 53

Page 55 Set 5: Number Wheels

1 a  b  c 

- 2 a 3 b 7 c 11 d 10

- 3 1, 121, 12321, 1234321, 123454321

Page 56 Set 6: Beat the Clock

- 1 a 44 11 22 110 66 77 88 55 0 33
 b 55 77 22 0 44 110 88 33 99 66
 c 77 88 11 55 110 33 22 66 99 44
 d 55 33 22 66 77 88 44 110 99 0
 e 22 44 33 88 77 110 55 99 11 66

Page 57 Set 7: Race Yourself

- A 1 55 2 88 3 110 4 44 5 66 6 22
 7 33 8 77 9 99 10 11
- B 1 63 2 90 3 36 4 18 5 27 6 72 7 54
 8 81 9 45 10 0
- C 1 32 2 64 3 56 4 16 5 8 6 72 7 80
 8 24 9 48 10 40
- D 1 14 2 56 3 35 4 70 5 42 6 28 7 0
 8 49 9 7 10 21
- E 1 6 2 30 3 60 4 24 5 12 6 0 7 36
 8 48 9 42 10 54
- F 1 70 2 30 3 80 4 20 5 10 6 100
 7 90 8 60 9 40 10 50

Quick question: six times eleven is sixty-six.

Page 58 Set 8

- 1 a 5 b 7 c 18 d 8 e 48 f 8 g 9 h 5
 2 a 1 b 7 c 9 d 10 e 3 f 40 g 7 h 0
 3 a 7 b 24 c 40 d 9 e 44 f 5 g 7 h 2
 4 a 0 b 18 c 66 d 9 e 2 f 4 g 7 h 9
 5 a 40 b 5 c 8 d 0 e 9 f 11 g 11 h 8
 6 a 21 b 6 c 7 d 8 e 1 f 6 g 6 h 11

UNIT 7: $\times 12$

Page 59 Set 1: Draw and Count

- 1 a $1 \times 12 = 12$, draw 12 eggs
 b $2 \times 12 = 24$, draw 24 windows
 c $3 \times 12 = 36$, draw 36 whiskers
- 2 a 0 12 24 36 48 60 72 84 96 108 120
 b 120 108 96 84 72 60 48 36 24 12 0

Quick question: answers will vary (e.g. the ones digit goes up by 2 each time while the tens digit goes up by just 1, after 0 the digits always add to 3 6 9 in order ...).

Page 60 Set 2: All the Same

- 1 a 48, $12 \times 4 = 48$
 b 60, $12 \times 5 = 60$
 c 72, $12 \times 6 = 72$
 d 84, $12 \times 7 = 84$
- 2 $9 \times 12 = 108$ (story will vary)
- Quick question: count 12 24 36 48 60 72 84 96 108 120.

Page 61 Set 3: Write it

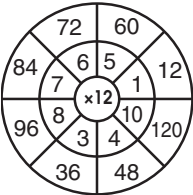
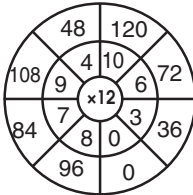
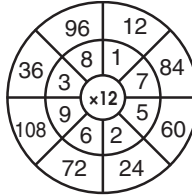
- 1 a $3 \times 12 = 36$, 36 clowns
 b $6 \times 12 = 72$, 72 rooms
- 2 a $3 \times 12 = 36$
 b $2 \times 12 = 24$
 c $7 \times 12 = 84$
 d $8 \times 12 = 96$
 e $10 \times 12 = 120$
 f $5 \times 12 = 60$
- 3 a 120 108 96 84 72 60 48 36 24 12
 b 0 12 24 36 48 60 72 84 96 108

Quick question: there are 60 clowns altogether.

Page 62 Set 4: Challenge

- 1 a 36 b 84 c 24 d 120 e 0 f 60
 g 108 h 48
- 2 a 48 b 96 c 108 d 60 e 84 f 36 g 24
 h 120
- 3 48 84 12 120 24 108 60 72 36 0
- 4 Multiply by 12 and add 7,
 67 31 127 79 103 43 91 55

Page 63 Set 5: Number Wheels

1 a  b  c 

- 2 a 4 b 12 c 8 d 12
- 3 a 6 12 18 24 30 36 42 48 54 60 66
 b 9 18 27 36 45 54 63 72 81 90 99
 c 5 10 15 20 25 30 35 40 45 50 55
 d 7 14 21 28 35 42 49 56 63 70 77
 e 8 16 24 32 40 48 56 64 72 80 88

Page 64 Set 6: Beat the Clock

- 1 a 84 60 36 72 24 108 0 12 120 48
 b 48 120 12 84 24 108 72 36 0 96
 c 36 96 12 24 72 84 60 120 48 108
 d 24 60 36 96 120 84 72 12 108 48
 e 84 120 60 24 48 36 96 0 12 72

Page 65 Set 7: Race Yourself

- A** 1 60 2 96 3 120 4 48 5 72 6 24 7 36
 8 84 9 108 10 12
- B** 1 77 2 110 3 44 4 22 5 33 6 88 7 66
 8 99 9 55 10 0
- C** 1 28 2 56 3 49 4 14 5 7 6 63 7 70
 8 21 9 42 10 35
- D** 1 16 2 64 3 40 4 80 5 48 6 32 7 0
 8 56 9 8 10 24

- E** 1 9 2 45 3 90 4 36 5 27 6 0 7 54
 8 72 9 63 10 81

- F** 1 42 2 18 3 48 4 12 5 6 6 60 7 54
 8 36 9 24 10 30

Quick question: the product is one hundred and twenty.

Page 66 Set 8

- 1 a 6 b 8 c 42 d 6 e 72 f 9 g 5 h 3
 2 a 3 b 6 c 8 d 6 e 4 f 44 g 7 h 32
 3 a 7 b 27 c 36 d 9 e 55 f 9 g 7 h 5
 4 a 10 b 42 c 36 d 5 e 7 f 12 g 3 h 12
 5 a 45 b 5 c 5 d 0 e 8 f 11 g 8 h 4
 6 a 56 b 6 c 9 d 3 e 4 f 11 g 12 h 11