

Maths in Year 3

Maths in Year 3



Hunslet Moor Primary School, our approach to teaching mathematics is intended to support all of our children in becoming young, confident mathematicians; prepare them for their next stage of mathematical learning at secondary school, and to be able to apply their mathematical knowledge in everyday situations in order to be successful in life beyond school. We intend to do this, on a daily basis, through developing all children's fluency in all areas of the mathematics national curriculum; providing opportunities to reason mathematically; and also develop children's using and applying skills when solving increasingly more complex problems involving a range of mathematical knowledge.

Year 3



18.01.24

To multiply by 10

Last year	Last month
$0 \times 2 = 20$ ✓	$899 + 402 =$ 2,111*
$0 \times 4 = 40$ ✓	
Last week	Yesterday
$2 \times 8 = 16$ ✓	$40 \div 8 = 5$ ✓
$4 \times 5 = 20$ ✓	$8 \times 4 = 32$ ✓
$24 = 11 \times 2$ ✓	

Complete the number tracks.

a) 60 70 110

b) 30 40 70

Complete the number lines.

a)

b)

c)

Use the ten frames to work out the multiplications.

16×10

18×10

24×10

d) 27×10

3d) $27 \times 10 = 270$

4a) $8 \times 10 = 80$

5a) $21 \times 10 = 210$

6a) 50, 120, 670, 90, 510

7a) $42 \times 10 = 420$

7b) $22 \times 10 = 220$

7c) $10 \times 35 = 350$

7d) $28 \times 10 = 280$

7e) $10 \times 83 = 830$

7f) $4 \times 3 \times 10 = 120$

8a) 13 • 23

8b) 10 •

8c) 18 •

8d) 21

9a) $£10 \times £20 = £200$

10) $10 \times 3 = 30$
 $3 \times 10 = 30$
 $4 - 1 = 3$
The number is 63

challenge) $10 \times 20 = 200$
challenge) I know because you subtract the hundreds and you work it out

1 Sweets are sold in packets of 10. How many sweets are there in 18 packets?

2 Huan reads 10 pages of his book every day. How many pages will he read in 31 days?

3 Which numbers are multiples of 10?

How do you know?

4 Work out the calculations.

a) 42×10 c) 10×35 e) 10×83

b) 21×10 d) 28×10 f) $4 \times 3 \times 10$

5 Fill in the missing numbers.

a) $\square \times 10 = 230$ c) $10 \times \square = 580$

b) $71 \times \square = 710$ d) $910 \div 10 = \square$

6 Teddy saves £10 a week. How many weeks will it take him to save £120?

7 Each card represents a number.

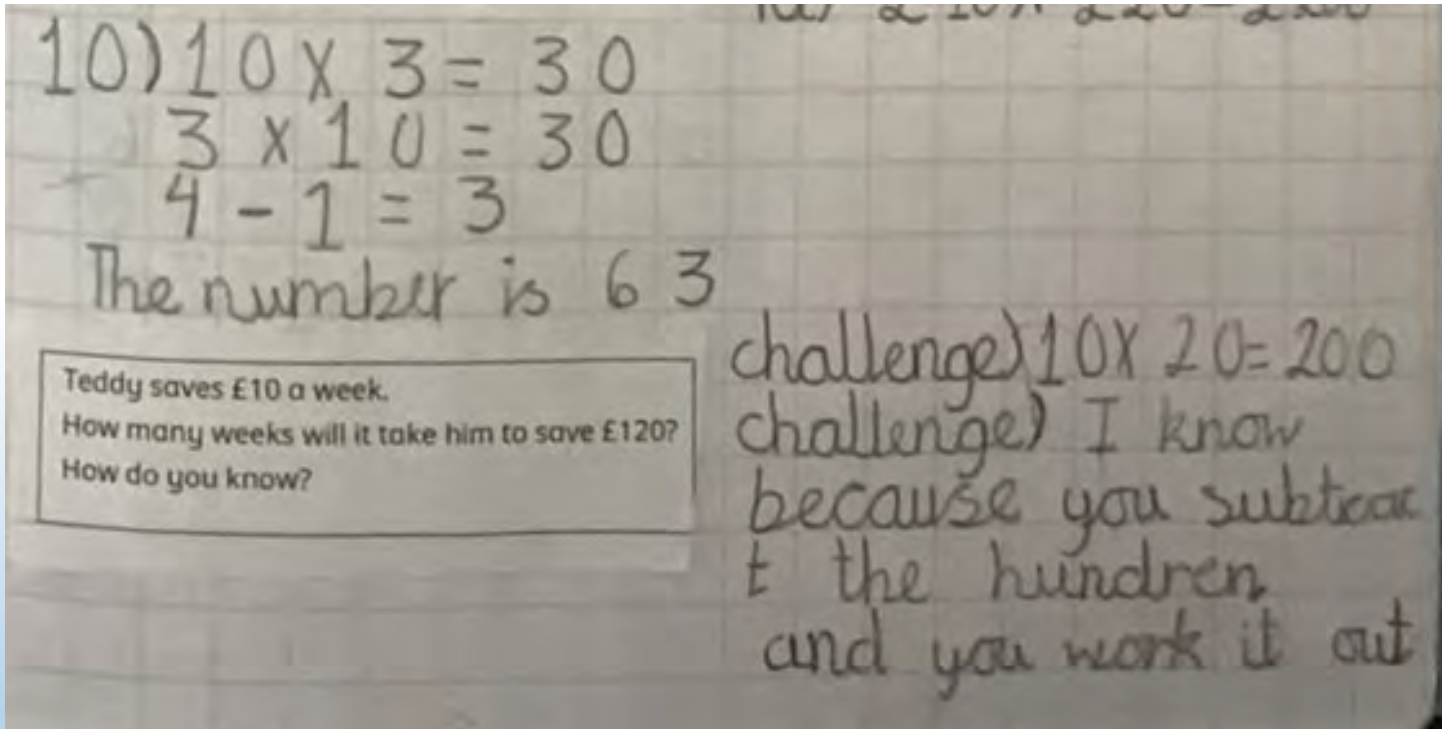
A B C D

A is 10 times the size of B
B is 3 times the size of C
C is 10 times the size of D
D is 1 less than 4

What is each number?

Memory grids
We use memory grids as a way of revisiting our previous learning. This helps us to embed and retain our mathematical knowledge.

Year 3



Extended Learning Challenges

We use blue highlighters to offer pupils a next step or challenge in their learning.

This is used to either reason or deepen pupils understanding.

Year 3



Elephant

In the 2 times table: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100

In the 4 times table: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100

In the 8 times table: 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96, 100

Are any of the parts empty? Why? Talk about it with a partner.

Sometimes
~~NOT~~ true because 2 is an even number but it is not the same number as even.
 For example $3 \times 2 = 6$ and 6 is even.

6, 12, 18, 24

LO: The 2s, 4s and 8 times tables

Last year	Last month
$5 \times 12 = 60$	3 4 5
$45 \div 5 = 9$	+ 2 5 6
	6 0 1

Last week	Yesterday
Circle the multiples of 8. 4, 7, 8, 10, 12, 16, 15, 32	$3 \times 8 = 24$
	$8 \times 4 = 32$

1 How many legs are there altogether? Write a multiplication for each picture.

a) $4 \times 2 = 8$

b) $3 \times 4 = 12$

c) $4 \times 8 = 32$

2 How many pencils are there? Write a multiplication for each picture.

a) $2 \times 4 = 8$

b) $3 \times 2 = 6$

c) $4 \times 3 = 12$

3 A paper clip is 3 cm long. 3 cm

a) What is the total length of 2 paper clips? $2 \times 3 = 6$

b) What is the total length of 4 paper clips? $4 \times 3 = 12$

c) What is the total length of 8 paper clips? $8 \times 3 = 24$

4 Work out the multiplications.

a) $1 \times 2 = 2$ b) $1 \times 4 = 4$ c) $1 \times 8 = 8$

$2 \times 2 = 4$ $2 \times 4 = 8$ $2 \times 8 = 16$

$3 \times 2 = 6$ $3 \times 4 = 12$ $3 \times 8 = 24$

$4 \times 2 = 8$ $4 \times 4 = 16$ $4 \times 8 = 32$

$5 \times 2 = 10$ $5 \times 4 = 20$ $5 \times 8 = 40$

What do you notice?

5 Work out the multiplications.

a) $6 \times 4 = 24$ b) $12 \times 2 = 24$ c) $4 \times 9 = 36$

d) $2 \times 10 = 20$ e) $8 \times 4 = 32$ f) $10 \times 8 = 80$

g) $7 \times 8 = 56$ h) $2 \times 11 = 22$

6 Work out the missing numbers.

a) $\square \times 8 = 16$ b) $\square \times 4 = 20$ c) $24 = \square \times 2$

d) $8 \times \square = 0$ e) $2 \times 4 \times \square = 64$ f) $40 = \square \times 5 \times \square$

Handwritten solutions for 6:
 a) $2 \times 8 = 16$
 b) $5 \times 4 = 20$
 c) $12 \times 2 = 24$
 d) $0 \times 8 = 0$
 e) $8 \times 2 \times 4 = 64$
 f) $2 \times 4 \times 5 = 40$

A range of pictorial representations
 We use a range of concrete resources, pictorial and abstract methods to apply our mathematical understanding.