

Class 3 Home Learning, week beginning 8th June 2020

Maths - Year 3  
Summer Term, Week 4  
(w/c 11th May)

Lesson 1

Multiplying and dividing by 4 and 8

Please watch the video before choosing your challenge.

Each challenge has a part 1 (x4 table) and a part 2 (x8 table).

The **answers** for all challenges are included in this document.

Can I multiply and divide by 4? (Y3), Challenge 1, Part 1

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book.

1) Complete the multiplication, write your answer in your maths book.



$$\square \times \square = \square$$



$$\square \times \square = \square$$

2) Copy and complete in your maths book.

a)  $6 \times 4 = \square$

g)  $24 \div 4 = \square$

b)  $4 \times 3 = \square$

h)  $8 \div 4 = \square$

c)  $\square = 7 \times 4$

i)  $0 \div 4 = \square$

d)  $4 \times \square = 48$

j)  $\square \div 11 = 4$

e)  $0 \times 4 = \square$

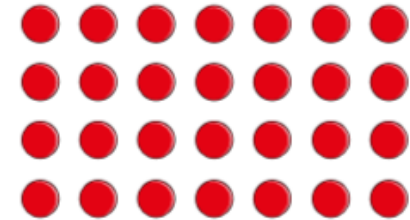
k)  $\square \div 4 = 5$

f)  $4 \times 9 = \square$

l)  $1 \times 4 = \square$

3) Copy and complete the statements in your maths book.

What multiplication and division statements does the array represent?



$$\square \times \square = \square$$

$$\square \times \square = \square$$

$$\square \div \square = \square$$

$$\square \div \square = \square$$

4) Copy and complete in your maths book.

a)  $2 \times 4 = \square$

c)  $3 \times 4 = \square$

$4 \times 4 = \square$

$3 \times 8 = \square$

$8 \times 4 = \square$

$3 \times 12 = \square$

b)  $8 = 4 \times \square$

$16 = 4 \times \square$

$32 = 4 \times \square$

What patterns do you notice?

Answers are on the next page.

Can I multiply and divide by 4? (Y3)

Challenge 1, Part 1

ANSWERS

1 Complete the multiplication.



$$\boxed{8} \times \boxed{4} = \boxed{32}$$



$$\boxed{4} \times \boxed{3} = \boxed{12}$$

2 Complete the number sentences.

a)  $6 \times 4 = \boxed{24}$

g)  $24 \div 4 = \boxed{6}$

b)  $4 \times 3 = \boxed{12}$

h)  $8 \div 4 = \boxed{2}$

c)  $\boxed{28} = 7 \times 4$

i)  $0 \div 4 = \boxed{0}$

d)  $4 \times \boxed{12} = 48$

j)  $\boxed{44} \div 11 = 4$

e)  $0 \times 4 = \boxed{0}$

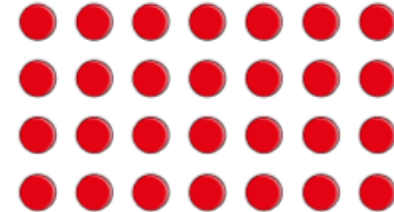
k)  $\boxed{20} \div 4 = 5$

f)  $4 \times 9 = \boxed{36}$

l)  $1 \times 4 = \boxed{4}$

3 What multiplication and division statements does the array represent?

Complete the statements.



$$\boxed{4} \times \boxed{7} = \boxed{28}$$

$$\boxed{7} \times \boxed{4} = \boxed{28}$$

$$\boxed{28} \div \boxed{7} = \boxed{4}$$

$$\boxed{28} \div \boxed{4} = \boxed{7}$$

4 Complete the number sentences.

a)  $2 \times 4 = \boxed{8}$

c)  $3 \times 4 = \boxed{12}$

$4 \times 4 = \boxed{16}$

$3 \times 8 = \boxed{24}$

$8 \times 4 = \boxed{32}$

$3 \times 12 = \boxed{36}$

b)  $8 = 4 \times \boxed{2}$

$16 = 4 \times \boxed{4}$

$32 = 4 \times \boxed{8}$

What patterns do you notice?

Can I multiply and divide by 4? (Y3), Challenge 2, Part 1

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book.

1) Copy and complete.

Write  $<$ ,  $>$  or  $=$  to compare the statements.

- a)  $48 \div 12$    $4$       d)  $4 \div 4$    $4 \times 4$   
 b)  $36$    $40 \div 4$       e)  $1 \times 4$    $4 \times 1$   
 c)  $16 \div 4$    $4 \times 4$       f)  $4 \times 2$    $32 \div 4$

2) Please show your calculations in your maths book.

A paper clip is 4 cm long.



How long are 6 of these paper clips?

3) Please show your calculations in your maths book.

Dexter buys 10 mugs and 4 key rings.

How much money does he spend in total?



Answers are on the next page.

4) Copy and complete.

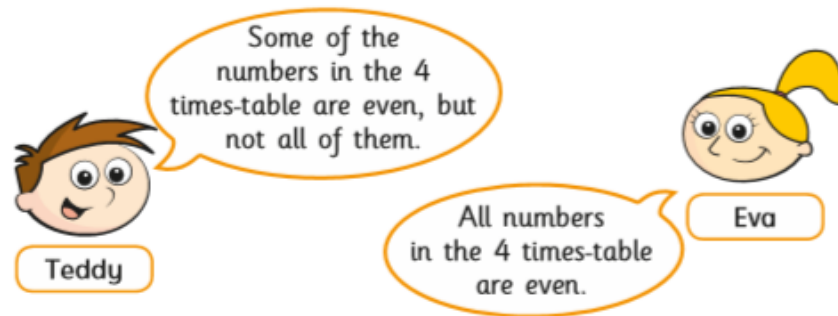
The pictogram shows the animals a group of children have as pets.

Complete the pictogram.

Animal	Pictogram	Number of animals
cat		
dog		28
bird		
mouse		

= 4 animals

5)



Who is correct? \_\_\_\_\_

How do you know? Talk about it with a partner.

ANSWERS

5 Write  $<$ ,  $>$  or  $=$  to compare the statements.

a)  $48 \div 12$   $=$   $4$

d)  $4 \div 4$   $<$   $4 \times 4$

b)  $36$   $>$   $40 \div 4$

e)  $1 \times 4$   $=$   $4 \times 1$

c)  $16 \div 4$   $<$   $4 \times 4$

f)  $4 \times 2$   $=$   $32 \div 4$

6 A paper clip is 4 cm long.



How long are 6 of these paper clips?

24cm

7 Dexter buys 10 mugs and 4 key rings.  
How much money does he spend in total?



£52

8 The pictogram shows the animals a group of children have as pets.

Complete the pictogram.

Animal	Pictogram	Number of animals
cat		16
dog		28
bird		20
mouse		4

= 4 animals

9



Teddy

Some of the numbers in the 4 times-table are even, but not all of them.



Eva

All numbers in the 4 times-table are even.

Who is correct? Eva

How do you know? Talk about it with a partner.

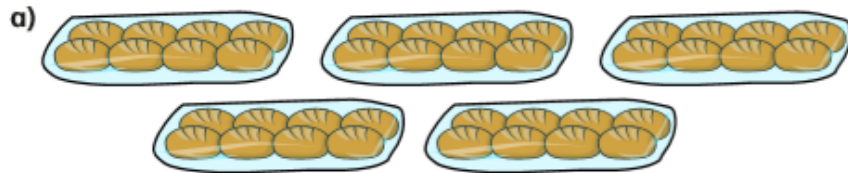
Can I multiply and divide by 8? (Y3), Challenge 1, Part 2

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book.

1) Copy and complete the number sentences in your maths book.

How many are there in total?

Complete the multiplications.



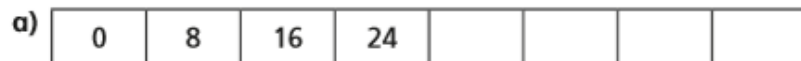
$$\square \times \square = \square$$



$$\square \times \square = \square$$

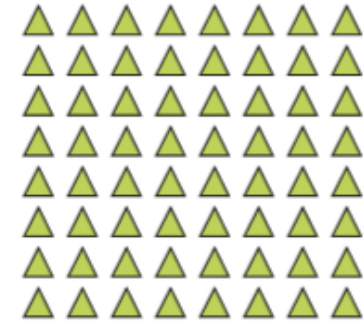
2) Please write your answers in your maths book.

Complete the number tracks.



3) Copy and complete the number sentences.

Here is an array made up of triangles.



a) What multiplication sentence can you see?

$$\square \times \square = \square$$

b) What division sentence can you see?

$$\square \div \square = \square$$

4) Copy and complete the number sentences.

Complete the calculations.

Try to do the calculations in your head.

a)  $6 \times 8 = \square$

e)  $72 \div 8 = \square$

b)  $8 \times \square = 56$

f)  $\square \div 11 = 8$

c)  $10 \times 8 = \square$

g)  $\square \div 8 = 5$

d)  $\square = 8 \times 4$

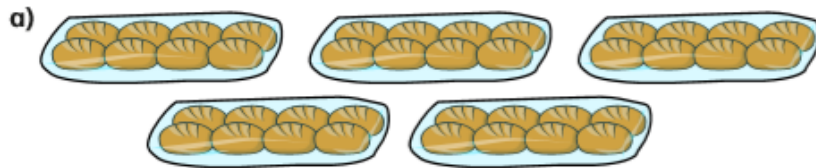
h)  $8 \times 1 = \square$

Can I multiply and divide by 8? (Y3), Challenge 1, Part 2

ANSWERS

1 How many are there in total?

Complete the multiplications.



$$\boxed{5} \times \boxed{8} = \boxed{40}$$



$$\boxed{4} \times \boxed{8} = \boxed{32}$$

2 Complete the number tracks.

a) 

0	8	16	24	32	40	48	56
---	---	----	----	----	----	----	----

b) 

96	88	80	72	64	56	48	40
----	----	----	----	----	----	----	----

3 Here is an array made up of triangles.



a) What multiplication sentence can you see?

$$\boxed{8} \times \boxed{8} = \boxed{64}$$

b) What division sentence can you see?

$$\boxed{64} \div \boxed{8} = \boxed{8}$$

4 Complete the calculations.

Try to do the calculations in your head.

a)  $6 \times 8 = \boxed{48}$

e)  $72 \div 8 = \boxed{9}$

b)  $8 \times \boxed{7} = 56$

f)  $\boxed{88} \div 11 = 8$

c)  $10 \times 8 = \boxed{80}$

g)  $\boxed{40} \div 8 = 5$

d)  $\boxed{32} = 8 \times 4$

h)  $8 \times 1 = \boxed{8}$

Can I multiply and divide by 8? (Y3), Challenge 2, Part 2

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book.

1) Write your answer in your maths book.

What multiplication can you see?



2) Copy and complete.

a)  $2 \times 8 = \square$

b)  $8 = 8 \times \square$

$4 \times 8 = \square$

$16 = 8 \times \square$

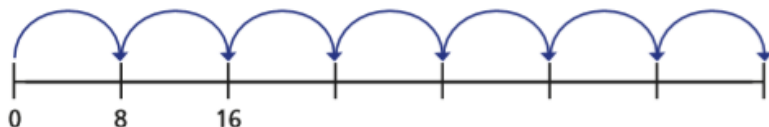
$8 \times 8 = \square$

$32 = 8 \times \square$

What patterns do you notice?

3) Write your answers in your maths book.

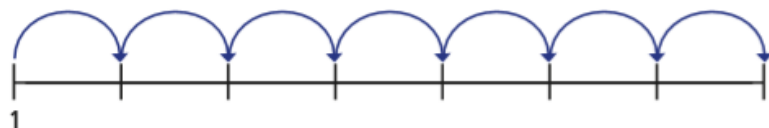
a) Amir draws 7 jumps of 8 on a number line.



What number does Amir end on?

Explain how you worked it out.

b) This time, Amir makes 7 jumps of 8, but starts from 1



What number does Amir end on this time?

Explain how you know.

4) Please write your calculations in your maths book.

Boats can be hired on a lake.

There are 5 large boats and 8 small boats on the lake.

Each boat is full.

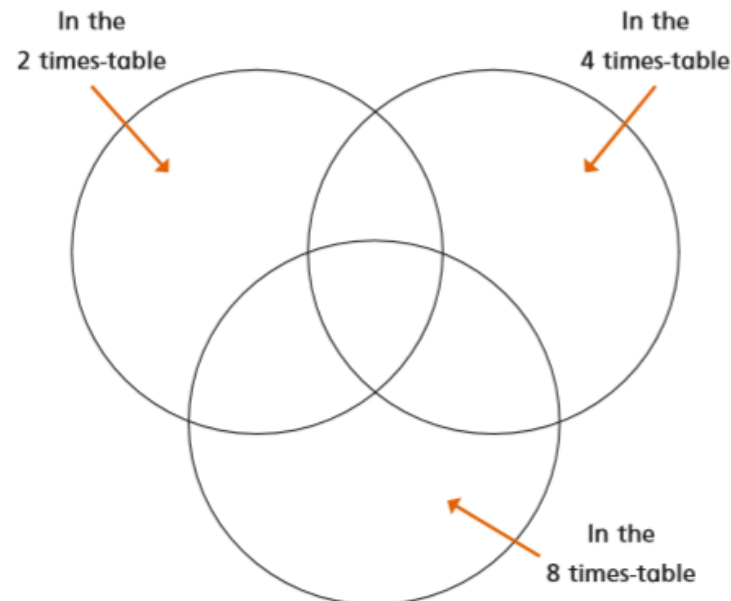
How many people are on the lake?



5) Copy and complete.

Put the numbers into the sorting diagram.

2   4   16   32   48   36   12   6



Are any of the parts empty? Why?

Talk about it with a partner.



ANSWERS

5 What multiplication can you see?



6 Complete the multiplications.

a)  $2 \times 8 = 16$

b)  $8 = 8 \times 1$

$4 \times 8 = 32$

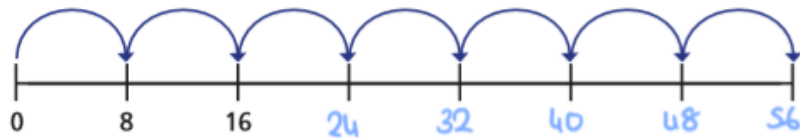
$16 = 8 \times 2$

$8 \times 8 = 64$

$32 = 8 \times 4$

What patterns do you notice?

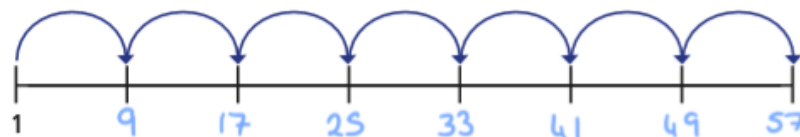
7 a) Amir draws 7 jumps of 8 on a number line.



What number does Amir end on? 56

Explain how you worked it out.

b) This time, Amir makes 7 jumps of 8, but starts from 1



What number does Amir end on this time? 57

8 Boats can be hired on a lake.

There are 5 large boats and 8 small boats on the lake.

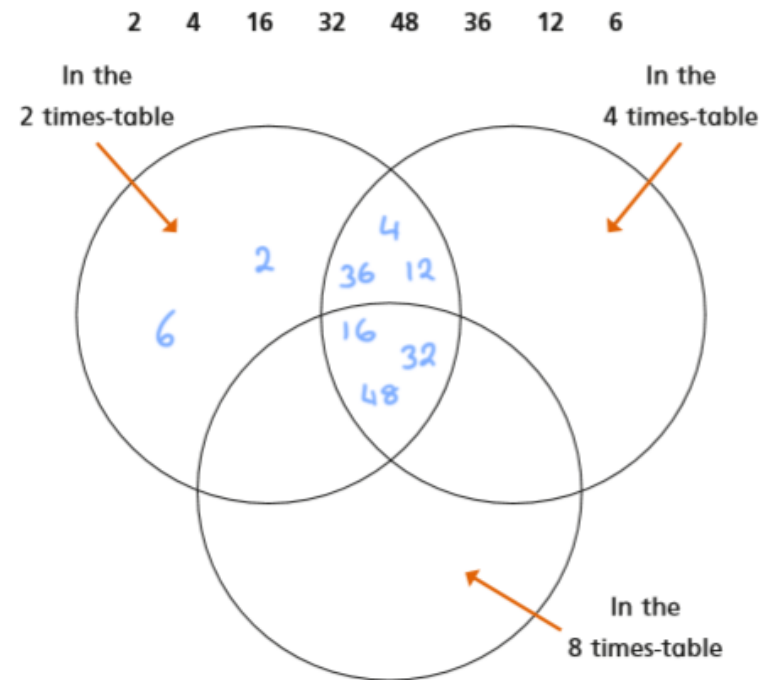
Each boat is full.

How many people are on the lake?

72



8 Put the numbers into the sorting diagram.



Are any of the parts empty? Why?

Talk about it with a partner.