

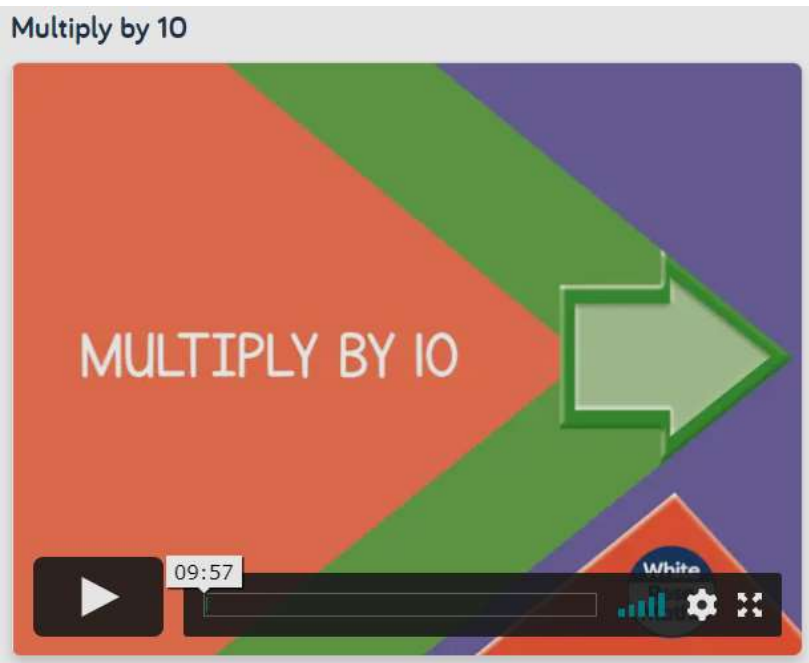
Day one

To access the maths home learning, please use the following links:

<https://whiterosemaths.com/homelearning/year-4/week-10-number-multiplication-division/>

Copy and paste this link into your web browser.

This will bring you to the units we will be exploring over the next two weeks.



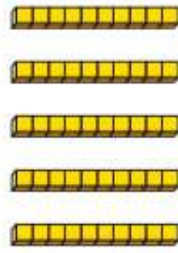
Today, we will be focusing on multiplying by 10.

Please watch this video and note down any strategies that might help you complete the worksheet.

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Multiply by 10

1 Complete the calculation shown in base 10



$$5 \times 1 \text{ ten} = \square \text{ tens}$$

$$5 \times 10 = \square$$

2 Complete the number sentences.

a) $2 \times 10 = \square$ d) $7 \times 10 = \square$

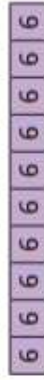
b) $4 \times 10 = \square$ e) $10 \times 6 = \square$

c) $10 \times 8 = \square$ f) $\square = 3 \times 10$

3 Match the bar models to the multiplications.



5×10



10×9



6×10

4 Tom has 10 boxes of eggs.

There are 12 eggs in each box.

How many eggs does he have altogether?

Tom has eggs.

5 Complete the sentences.

H	T	O
	10	1 1 1
	10	1 1 1
	10	1 1 1
	10	1 1 1
	10	1 1 1
	10	1 1 1
	10	1 1 1
	10	1 1 1
	10	1 1 1
	10	1 1 1

Each row has ten and ones.

There are rows.

The calculation is \times =



6 Use counters on a place value chart to work out 23×10

$23 \times 10 = \square$

7 Which of these is the odd one out? Tick your answer.

There are 10 teams with 7 players on each team.

There are 10 red flowers and 7 yellow flowers.

There are 7 ten frames with 10 counters in each.

Talk about it with a partner.



8 Complete the calculations.

a) $45 \times 10 = \square$ e) $10 \times \square = 140$

b) $36 \times 10 = \square$ f) $\square = 40 \times 10$

c) $\square = 10 \times 78$ g) $32 \times 10 = 10 \times \square$

d) $31 \times \square = 310$ h) $670 = 2 \times 5 \times \square$

9 Eva walks 60 m to school.

Teddy walks 10 times as far as Eva to school.

How far does Teddy walk to school?

Teddy walks \square m to school.

10

Amir thinks of a 2-digit number.

He multiplies it by 10



My answer is between 755 and 795

Write all the numbers Amir could be thinking of.



11

Chocolates come in boxes of 8 and 10



Rosie needs to buy 80 chocolates.

a) What boxes could Rosie buy?

b) What is the fewest number of boxes Rosie needs to buy?

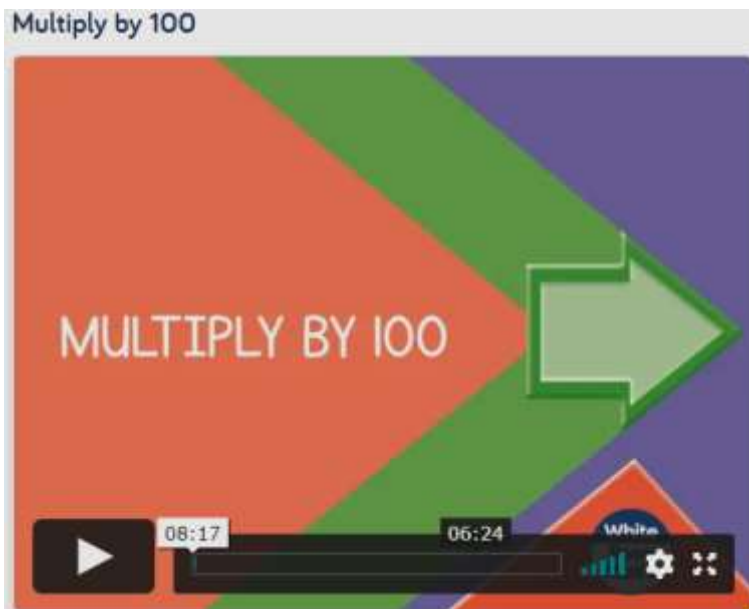


Day two

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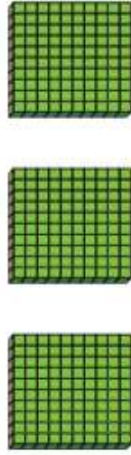
Today, we will be focusing on multiplying by 100.

Please watch this video and note down any strategies that might help you complete the worksheet.

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Multiply by 100

1 Complete the calculation shown in base 10



3×1 hundred = hundreds

$3 \times 100 =$

2 Complete the number sentences.

a) $2 \times 100 =$

d) $5 \times 100 =$

b) $4 \times 100 =$

e) $100 \times 10 =$

c) $100 \times 8 =$

f) = 20×100

3 There are 7 boxes of 100 crayons.



Circle the calculations that work out the total number of crayons.

$100 + 7$

100×7

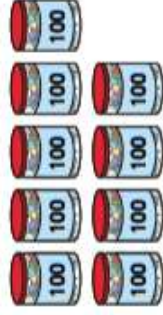
$7 + 100$

7×100

4 Match the images to the calculations.
Complete the calculations.



$9 \times 100 =$



$6 \times 100 =$



$12 \times 100 =$

5 Complete the calculations.

a) $32 \times 100 =$

d) $5 \times 7 \times 100 =$

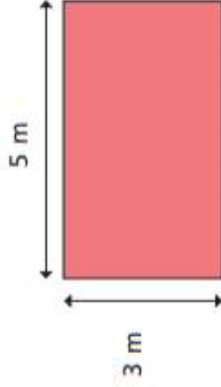
b) $29 \times 100 =$

e) $\times 100 = 6,500$

c) $100 \times 72 =$

f) $100 \times$ = $3,000$

- 6 Calculate the perimeter of the rectangle.



Give your answer in centimetres.

The perimeter of the rectangle is cm

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

a) 45×100 45×10

b) 36×100 100×36

c) 100×27 26×100

d) 31×100 $31 \times 10 \times 10$

e) 30×10 3×100

- 8 Amir thinks of a 2-digit even number.

He multiplies it by 100

His answer is greater than 3,450 but less than 3,750

Write the number that Amir is thinking of.

- 9 Four children are making numbers using base 10

The table shows how many of each piece they use.

	Number of 100s	Number of 10s
Eva	17	0
Ron	15	8
Dexter	16	15
Whitney		

- a) What number has Eva made?

- b) Who has made the biggest number?

- c) Whitney has made the same number as Eva.

She used 100s and 10s.

What pieces could Whitney have used?

Write your answer in the table.

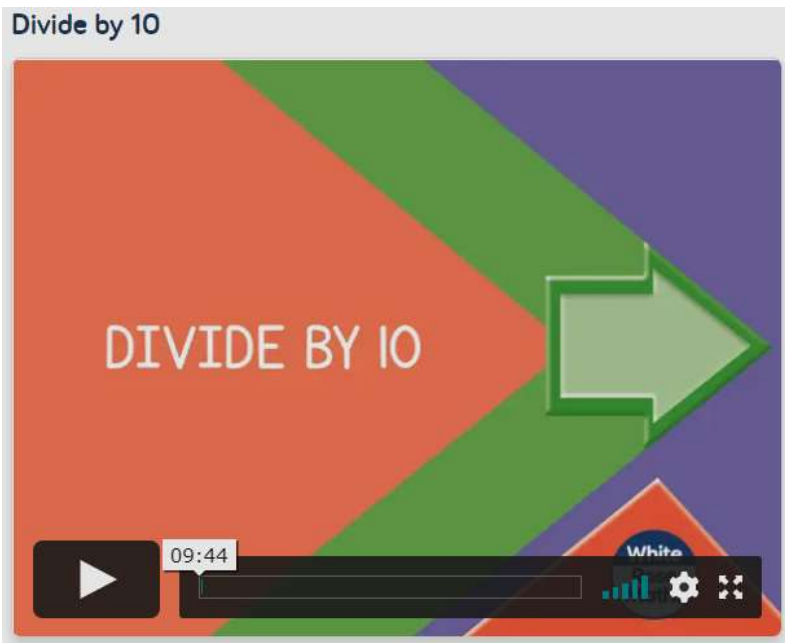
Are there any other answers? Talk about it with a partner.

Day three

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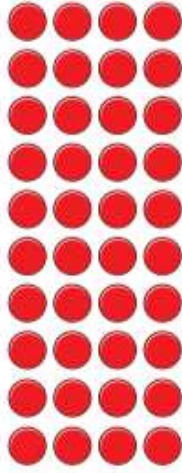
Today, we will be focusing on dividing by 10.

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Divide by 10

1 Complete the calculation shown by the array.



$$40 \div 10 = \square$$

2 Complete the calculations.

- a) $30 \div 10 = \square$
- b) $60 \div 10 = \square$
- c) $90 \div 10 = \square$
- d) $80 \div 10 = \square$
- e) $100 \div 10 = \square$
- f) $\square = 120 \div 10$

3 Balloons come in bags of 10

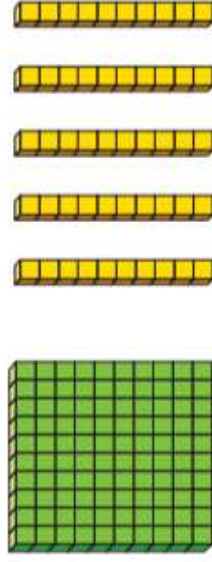
Huan has 130 balloons.

How many bags does he have?

Huan has bags of 10 balloons.



4 a) Whitney makes 150 using base 10



I am going to exchange my hundred for tens



Complete the sentences.

$$150 = 1 \text{ hundred} + \square \text{ tens}$$

$$1 \text{ hundred} = \square \text{ tens}$$

Whitney has tens altogether.

$$150 \div 10 = \square$$

b) Make 230 using base 10

Complete the sentences.

$$230 = \square \text{ hundreds} + \square \text{ tens}$$

$$\square \text{ hundreds} = \square \text{ tens}$$

There are tens altogether.

$$230 \div 10 = \square$$

- 5 Mr Smith has this amount of money.



He buys some rulers costing 10p each.



Mr Smith spends all of his money.
How many rulers does he buy?

- 6 Aisha has a bag of 10p coins.
She has £3 and 40p altogether.
How many 10p coins does Aisha have?

Aisha has 10p coins.

- 7 Fill in the missing numbers.

a) $360 \div 10 =$

b) $630 \div 10 =$

c) $10 \times$ $= 520$

d) $\div 10 = 41$

e) $= 75 \text{ tens} \div 10$

f) $86 =$ $\text{tens} \div 10$

- 8 A pool is 10 m long.
Annie and Mo are swimming lengths of the pool.
Annie swims 85 lengths.
Annie and Mo swim 1,240 m in total.
How many lengths does Mo swim?

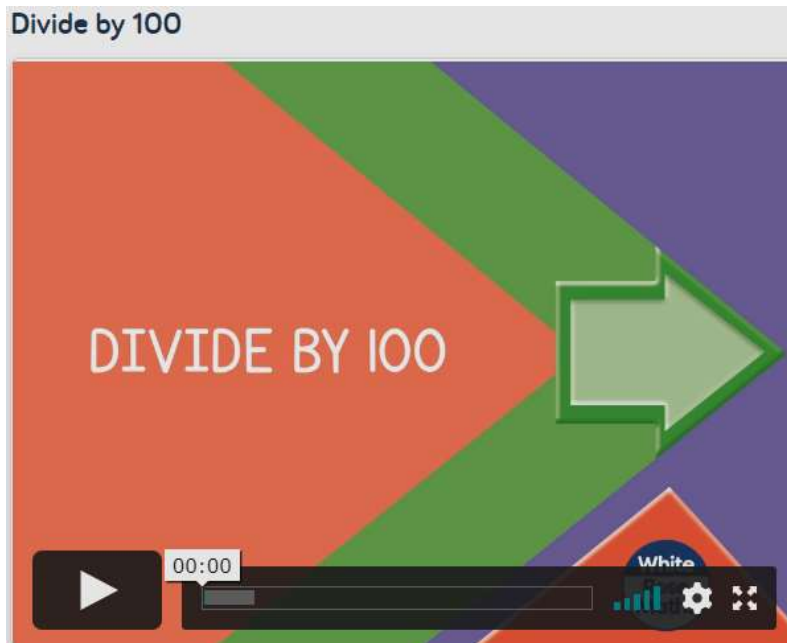
- 9 Complete the calculations.
- a) $360 \div 10 \div 3 =$
- b) $450 \div 10 \div 5 =$
- c) $720 \div 10 \div$ $= 8$
- d) $\div 10 \div 4 = 1$

Day four

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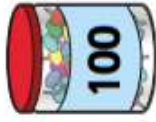
Divide by 100

1

There are 400 pins altogether.

The pins are packed in jars of 100

How many jars are there?



2

Complete the calculations.

a) $700 \div 100 =$

d) $7,000 \div 100 =$

b) $800 \div 100 =$

e) $8,000 \div 100 =$

c) $200 \div 100 =$

f) = $2,000 \div 100$

3

a) Teddy makes 2,300 using base 10



I will make groups of 100



Complete the sentences.

$2,300 = 2$ thousands + hundreds

1 thousand = hundreds

2 thousands = hundreds

Teddy has hundreds altogether.

$2,300 \div 100 =$

b) Make 3,700 using base 10

Complete the sentences.

$3,700 = 3$ thousands + hundreds

3 thousands = hundreds

There are hundreds altogether.

$3,700 \div 100 =$

4

a) One hundred 1p coins is equal to £1

a) Dexter has seven hundred 1p coins.

How many £1 coins is this equal to?

b) Aisha has seven thousand 1p coins.

How many £1 coins is this equal to?

c) Jack has 170 1p coins.

He says, "This is the same as £17"

Is Jack correct? _____

How do you know?



5 Complete the number sentences.

a) $40 \div 10 = \square$

b) $80 \div 10 = \square$

$400 \div 10 = \square$

$800 \div 10 = \square$

$400 \div 100 = \square$

$800 \div 100 = \square$

$4,000 \div 100 = \square$

$8,000 \div 100 = \square$

What patterns can you see?

6

Complete the calculations.

a) $100 \times \square = 1,200$

d) $\square \div 100 = 35$

b) $6,200 \div 100 = \square$

e) $\square = 35 \text{ hundreds} \div 100$

c) $100 \times \square = 5,200$

f) $96 = \square \text{ hundreds} \div 100$

7

Eva and Tommy collect gems in a computer game.

Each gem is worth 100 points.

At the end of the game, Eva has 4,300 points and Tommy has 800 points.

How many gems did they collect in total?

How did you work this out?



8

Use the digit cards to fill in the gaps.

You may use each digit card once only.

1

2

3

4

5

6

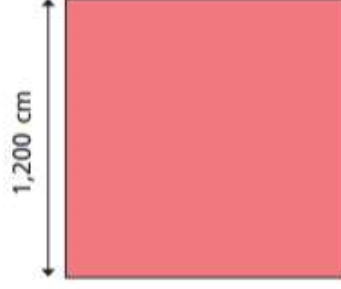
$3_ \times 100 = _,400$

$6,_00 \div 100 = _2$

$_,500 = 10 \times _0 \times 55$

9

The side length of a square is 1,200 cm.



a) What is the perimeter of the square in metres?

b) A rectangle has the same perimeter.

What could the length and width of the rectangle be?

length = width =



Day five

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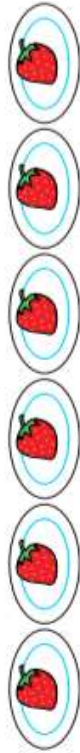
Today, we will be focusing on multiplying by 1 and 0.

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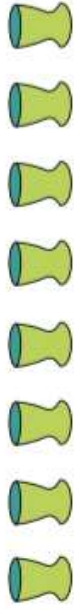
Multiply by 1 and 0

- 1 Write a multiplication to work out the total number of strawberries.



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

- 2



- a) How many flowers are in each vase? \square

- b) How many flowers are there in total?

Complete the calculation.

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

- 3 Circle the calculation that works out the number of apples.



6×0

6×1

6×2

- 4 How many marbles are there in total?



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

- 5 Complete the calculations.

a) $3 \times 1 = \square$

e) $1 \times \square = 4$

b) $1 \times 3 = \square$

f) $1 \times \square = 14$

c) $7 \times 1 = \square$

g) $12 \times \square = 0$

d) $7 \times \square = 0$

i) $1 \times \square = 31$

- 6 What could the missing number be?

$$0 \times \square = 0$$

Explain how you know.



- 7 a) Circle all the calculations that have an answer of zero.

39×1	95×0	178×0
8×0	4×1	0×16
2×0	0×0	42×1

- b) How did you work out which calculations to circle?

- 8 Eva and Mo are working out some multiplication problems.

a)   $1 \times 8 = 9$

What mistake has Eva made?

b)   $12 \times 0 = 12$

What mistake has Mo made?

Talk about your answers with a partner.

- 9 Work out these multiplications.

a) $2 \times 1 = \square$	b) $8 \times 1 = \square$
$1 \times 4 = \square$	$8 \times 1 \times 2 = \square$
$2 \times 4 \times 1 = \square$	$8 \times 1 \times 3 = \square$

What pattern do you notice in each part?
Talk about it with a partner.

- c) What multiplication would come next in part b)?

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

- 10 Eva and Dexter have 6 digit cards. They multiply them all together.

3	4	0	9	1	2
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I multiplied the numbers from left to right.



I knew the answer without multiplying the numbers one by one.

What could Dexter's method be?
Talk about it with a partner.

