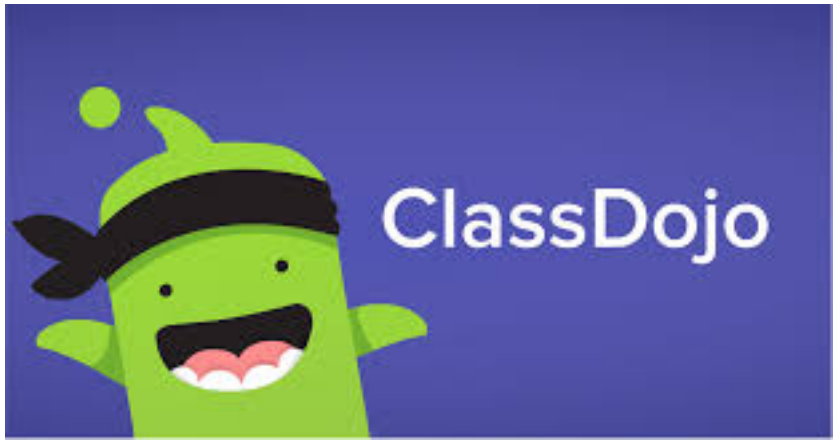
Year 3
Maths Lesson

14.1.21

Home Learning Powerpoint – If you have any problems, just send us a Dojo message.

On this maths powerpoint:

- 1 warm up activity
- 1 maths lesson



Remember – you can get Dojos for posting pictures of your work on Class Dojo!

Warm Up Activity

Practise the 2, 5, 10 and 6 x tables.

Easier

1. __ x 5 = 15
2. __ x 10 = 40
3. __ x 2 = 20
4. __ x 5 = 25
5. __ x 10 = 60
6. __ x 2 = 8
7. __ x 5 = 30
8. __ x 10 = 90
9. __ x 2 = 18
10. __ x 5 = 20

Harder

1. __ x 6 = 12
2. __ x 6 = 24
3. 6 x __ = 30
4. 6 x __ = 36
5. __ x 6 = 6
6. 6 x __ = 18
7. __ x 6 = 42
8. 6 x __ = 54
9. __ x 6 = 60
10. 6 x __ = 66

Answers on the next page – no peeking!

Warm Up Activity

Answers!

Easier

1. 3 x 5 = 15
2. 4 x 10 = 40
3. 10 x 2 = 20
4. 5 x 5 = 25
5. 6 x 10 = 60
6. 4 x 2 = 8
7. 6 x 5 = 30
8. 9 x 10 = 90
9. 9 x 2 = 18
10. 4 x 5 = 20

Harder

1. 2 x 6 = 12
2. 4 x 6 = 24
3. 6 x 5 = 30
4. 6 x 6 = 36
5. 1 x 6 = 6
6. 6 x 3 = 18
7. 7 x 6 = 42
8. 6 x 9 = 54
9. 10 x 6 = 60
10. 6 x 11 = 66

Now mark your work.

How did you do?

Maths Lesson

Write out your objective and date in your exercise book.

14.1.21

Objective: Can I multiply and divide any number by 10 and 100?

Objective: : Multiply and divide by 10 and 100.

Draw a **place value** grid like this on your whiteboard.

100s	10s	1s
		4

Write the number **4** on the grid.

Answer:

100s	10s	1s
	4	0

What has happened to the digits?

What is 4 × 10?
Show the answer on your whiteboard.

Answer:

100s	10s	1s
4	0	0

What has happened to the digits?

What is 4 × 100?
Show the answer on your whiteboard.

The digits move 2 place value columns to the **left** when we multiply by 100.

Objective: : Multiply and divide by 10 and 100.

What is 7 × 10 and 7 × 100?
Show the answers on your whiteboard.

Answers on the next page…

100s	10s	1s
		7

Don't forget…

Move 1 or 2 places to the left…

… put in 0s as placeholders.

7 x 10 =

100s	10s	1s

7 x 100 =

100s	10s	1s

Objective: : Multiply and divide by 10 and 100.

What is 7 × 10 and 7 × 100?
Show the answers on your whiteboard.

Answers

100s	10s	1s
		7

Don't forget…

Move 1 or 2 places to the left…

… put in 0s as placeholders.

7 x 10 =

100s	10s	1s
	7	0

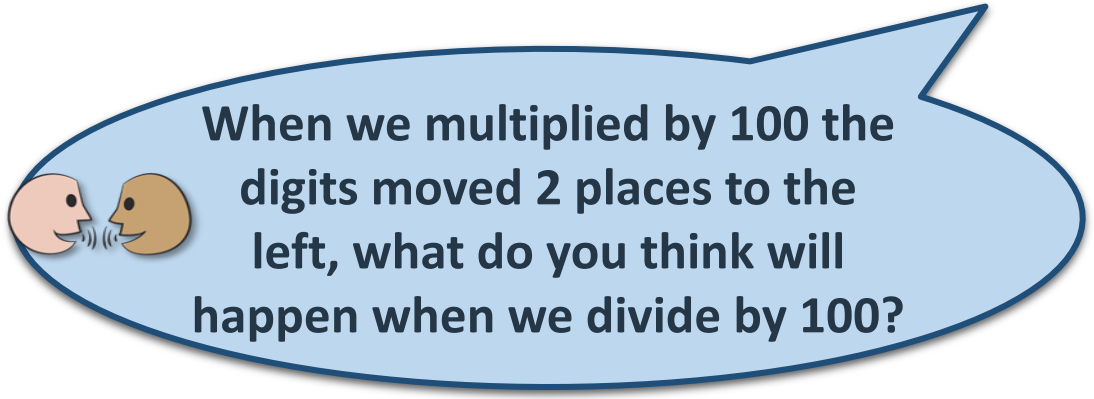
7 x 100 =

100s	10s	1s
7	0	0

Objective: : Multiply and divide by 10 and 100.

What is 700 ÷ 100?

Answer on the next page…



100s	10s	1s
7	0	0

100s	10s	1s

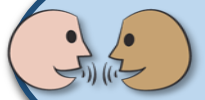
7

Objective: : Multiply and divide by 10 and 100.

What is 700 ÷ 100?

Answer on the next page…

100s	10s	1s
7	0	0



When we multiplied by 100 the digits moved 2 places to the left, what do you think will happen when we divide by 100?

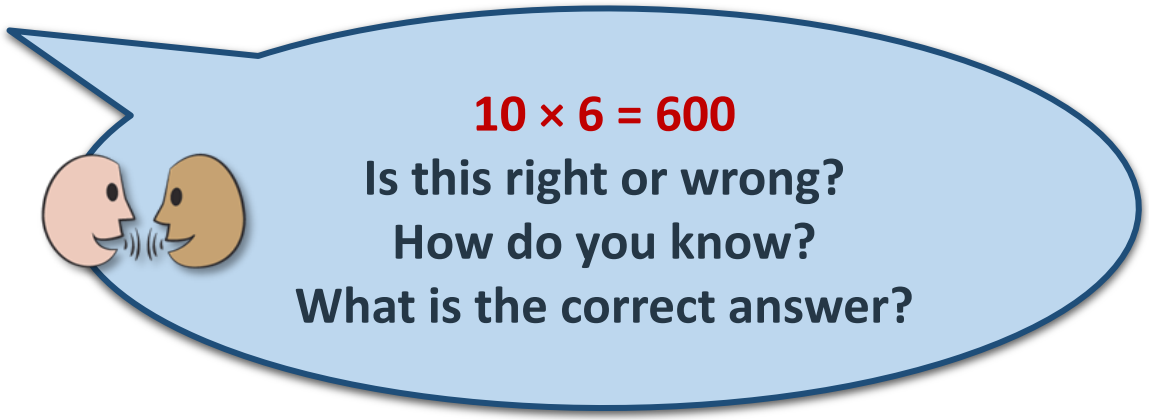
Answer:

100s	10s	1s
		7

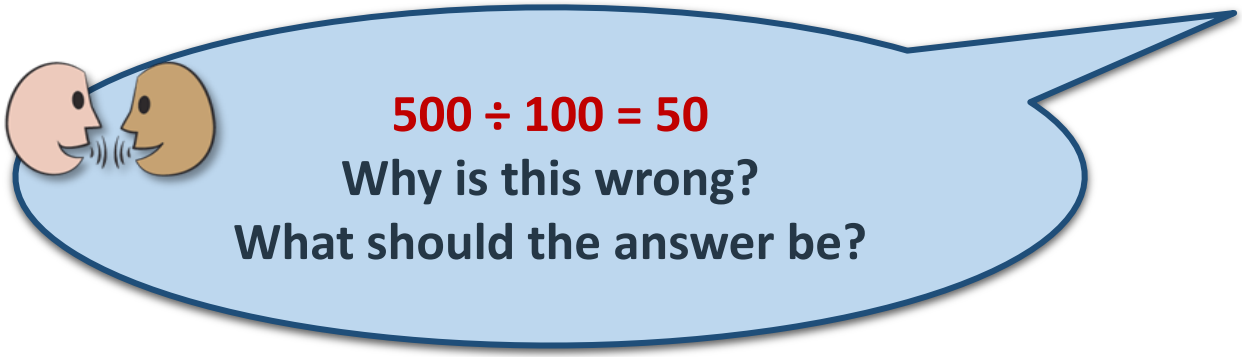
The 7 moved 2 places to the right...

…. and we don't need the final two 0s.

Objective: : Multiply and divide by 10 and 100.



Chat/think about…



Task 1

Multiply each number by 10 or 100. Write the calculation in your book and the answer.

Easier

1. 9 x 10 =
2. 17 x 10 =
3. 22 x 10 =
4. 16 x 10 =
5. 26 x 100 =
6. 37 x 100 =
7. 28 x 100 =
8. 13 x 100 =

Harder

1. 165 x 10 =
2. 163 x 10 =
3. 232 x 10 =
4. 354 x 10 =
5. 383 x 100 =
6. 123 x 100 =
7. 142 x 100 =
8. 115 x 100 =

To multiply by 10 move each digit one decimal place to left and add zero as a place saver when needed. To multiply by 100 move each digit two decimal places.

Task 2

Divide each number by 10 or 100. Write the calculation in your book and the answer.

Easier

1. 900 ÷ 10 =
2. 700 ÷ 10 =
3. 100 ÷ 10 =
4. 500 ÷ 10 =
5. 600 ÷ 100 =
6. 700 ÷ 100 =
7. 800 ÷ 100 =
8. 300 ÷ 100 =

Harder

1. 660 ÷ 10 =
2. 390 ÷ 10 =
3. 580 ÷ 10 =
4. 330 ÷ 10 =
5. 1700 ÷ 100 =
6. 1400 ÷ 100 =
7. 3500 ÷ 100 =
8. 9500 ÷ 100 =

To divide by 10 move each digit one decimal place to right. To divide by 100 move each digit two decimal places to right.

Challenge Tasks!

These questions are a bit more tricky.

Multiplying by and dividing by 10 and 100

Sheet 1

Copy and complete the number sentences.

Section 1

6 x ? = 600	? x 10 = 370	550 = 55 x ?
2 x ? = 200	? x 10 = 230	? x 100 = 300
900 = 90 x ?	300 = 3 x ?	? x 100 = 700
? x 10 = 250	420 = 42 x ?	100 = ? x 100

Section 2

340 ÷ ? = 34	3 = ? ÷ 10	780 ÷ ? = 78	22 = 220 ÷ ?
200 ÷ ? = 2	? ÷ 100 = 1	4 = ? ÷ 100	390 ÷ ? = 39

Section 3

600 = 6 ? 100	990 ? 10 = 99	340 ? 10 = 34
78 ? 10 = 780	8 = 800 ? 100 =	320 ? 10 = 32

How did you do?

Don’t forget to post your work on Class Dojo!