

*LO: divide by 10, 100 and
1000.*

8.01.21

Daily 10

Level 6
Ordering
Largest First: Tens,
Ones and Tenths.

The screenshot shows the 'Daily 10' mental maths challenge interface. At the top, there are three tabs: 'Level 6' (selected), 'Ordering', and 'Smallest First: Tens, Ones and Tenths'. A close button (X) is in the top right corner. The main title 'Daily 10' is in a large, stylized font, with 'Mental Maths Challenge' below it. A central text box contains the instructions: 'You will be asked 10 questions. Write down each of your answers. Check your answers at the end.' Below this, it says 'Choose your question interval to start:' followed by a row of buttons: '3 secs', '5 secs', '7 secs', '10 secs', '15 secs', '20 secs', and 'Manual'. The 'Topmarks' logo is in the bottom right corner.

Level 6 ▾ Ordering ▾ Smallest First: Tens, Ones and Tenths ▾

Daily 10

Mental Maths Challenge

You will be asked 10 questions.
Write down each of your answers.
Check your answers at the end.

Choose your question interval to start:

3 secs 5 secs 7 secs 10 secs 15 secs 20 secs Manual

Topmarks

Place value chart

H	T	O	Tth	Hth	Thth


Use this place value chart to help you work out your answers.

Warm up

1) $42,000 \div 10 =$

$42,000 \div 100 =$

$42,000 \div 1,000 =$

2)  $\div 10 =$

3)

80									
					?				

Warm up

- 1 Complete the calculations and sentences.

Use place value counters to help you.

Th	H	T	O	Tth	Hth
	●	●● ●●		●	

a) $140 \div 10 =$

When the number is divided by 10 the counters move place to the right.

b) $140 \div 100 =$

When the number is divided by 100 the counters move places to the right.

c) $140 \div 1,000 =$

When the number is divided by 1,000 the counters move places to the right.

Warm up

3 a) Draw counters to represent the calculations.

$$123 \div 1$$

H	T	O	Tth	Hth	Thth

$$123 \div 10$$

H	T	O	Tth	Hth	Thth

$$123 \div 100$$

H	T	O	Tth	Hth	Thth

$$123 \div 1,000$$

H	T	O	Tth	Hth	Thth

b) Complete the calculations.

$$123 \div 1 = \square$$

$$123 \div 10 = \square$$

$$123 \div 100 = \square$$

$$123 \div 1,000 = \square$$

What do you notice?

Sentence stems

You will have discovered the rules by now for dividing by 10, 100 and 1000. Can you complete the sentences and learn them off by heart. They will help you answer your questions today.

When the number is divided by 10 the counters move _____ place to the _____ .

When the number is divided by 100 the counters move _____ places to the _____ .

When the number is divided by 1000 the counters move _____ places to the _____ .

Have a go at answering the questions.

Remember to use your place value chart to help you.

H	T	O	Tth	Hth	Thth

Varied Fluency

- Use the place value chart to divide the following numbers by 10, 100 and 1,000

Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

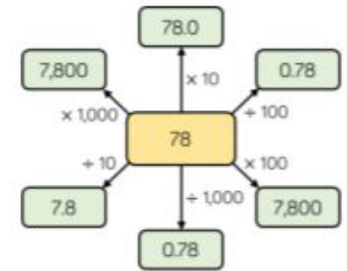
44

1.36

107

5

- Tick the correct answers.
Can you explain the mistakes with the incorrect answers?



- Complete the table.

	$\div 10$	$\div 100$	$\div 1,000$
30			
3 kg			
	0.9		
			9.0
		9.09	

Your Task

Divide by 10

- 1) 5
- 2) 1.2
- 3) 28
- 4) 0.7
- 5) 15
- 6) 4.3
- 7) 39
- 8) 0.1
- 9) 6
- 10) 2.5
- 11) 74
- 12) 0.8

Divide by 100

- 1) 45
- 2) 1.2
- 3) 370
- 4) 9
- 5) 0.6
- 6) 1485
- 7) 210
- 8) 8460
- 9) 67
- 10) 6
- 11) 17
- 12) 56

Divide by 1000

- 1) 290
- 2) 54
- 3) 6100
- 4) 327
- 5) 18700
- 6) 3
- 7) 1200
- 8) 450
- 9) 60
- 10) 338
- 11) 29
- 12) 7

Problem solving

You could think of an example to support your explanation.

Eva says,

When you divide by 10, 100 or 1,000 you just take away the zeros or move the decimal point.



Do you agree?
Explain why.

Plenary

True or False?

Divide by 10, 100 and 1,000

Whitney shares 5 litres of juice between 10 people.



Whitney

Each person will have 500 ml of juice.

Plenary

True or False ?

Divide by 10, 100 and 1,000

True

5 litres = 5000 millilitres.

$$5000 \div 10 = 500 \text{ ml}$$