Maths Arithmetic & Reasoning Activities

Multiplying and dividing by 10,100 and 1000

Watch this <u>clip</u> to help you revise multiplying and dividing by 10, 100, and 1000.

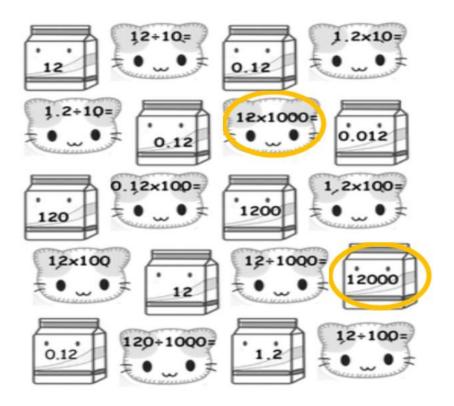
Multiplying and Dividing by 10, 100 and 1000

10 000	1000	100	10	1	10	1 100	1 1000
					•		

Multiplying X 10 digits move LEFT 1 space X 100 digits move LEFT 2 spaces X 1000 digits move LEFT 3 spaces ÷ 100 digits move RIGHT 1 space ÷ 100 digits move RIGHT 2 spaces ÷ 1000 digits move RIGHT 3 spaces

Thousands	Hundreds	Tens	Units	Decimal Point	Tenths	Hundredths	Thousandths	Ten- Thousandths	Hundred

P4L: Multiply and divide by 10, 100 and 1000 with decimals. **Circle the matching cat** with the milk carton in the same colour. Use the above grid to help you work out the answers. One has been completed for you.



Warming up*

Use the place value grid to help you

Multiplying and Dividing by 10, 100 and 1000

10 000	1000	100	10	1	1 10	1 100	1 1000
	Multip	lying			Div	iding	
X 10	digits move LEFT 1 space digits move LEFT 2 spaces			÷ 10	digits move RIGHT 1 space digits move RIGHT 2 spaces		
X 100 X 1000		ve LEFT 3		÷ 100 ÷ 1000		ove RIGHT	
	_				10.70	_	

Q1.
$$37 \times 10 =$$

Q2.
$$2.6 \times 10 =$$

Q3.
$$5 \times 4 \times 10 =$$

Q4.
$$4.6 \times 100 =$$

Q5.
$$0.9 \div 100 =$$

Q6.
$$101 \times 1,000 =$$

Q7.
$$100 \times 412 =$$

Q8.
$$98.31 \div 10 =$$

Q9.
$$0.04 \div 10 =$$

Q10.
$$20.61 \times 10 =$$

Q11.
$$0.1 \div 100 =$$

Q12.
$$100 \times 100 =$$

Q13.
$$1.28 \times 100 =$$

Q14.
$$343.1 \div 1,000 =$$

Feeling more confident **

Q1.

Circle the number that is **10 times** greater than nine hundred and seven.

9,700 907

9,007 970

9,070

Q2.

Write in the missing number.

Q3.

Write the missing number to make this **division** correct.

Q4.

Complete these calculations.

Q5.

Here are five number cards.

Use **four** of the cards to complete these calculations.

Q6.

Ready for a challenge***

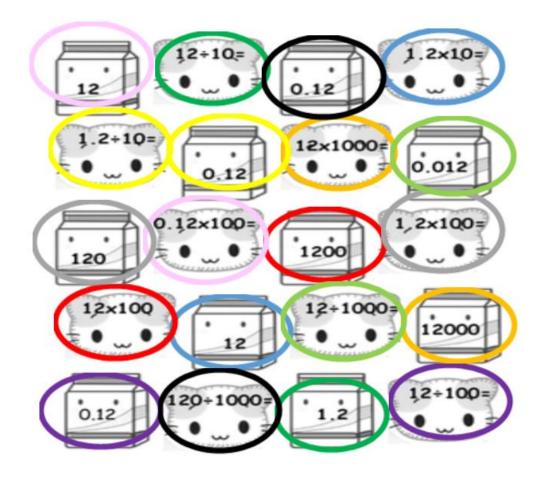
- 1. If Ayaan gets £1.25 pocket money a week, how much will he get in 10 weeks?
- 2. 10 children share 1240 gummy bears. How many gummy bears do they each get?
- 3. 100 books cost £165. How much does one book cost?
- 4. A book is 5mm thick. How thick would 1000 books be?
- 5. $1 \square 31 \div 1000 = 1.131$

Remember to show your working out.

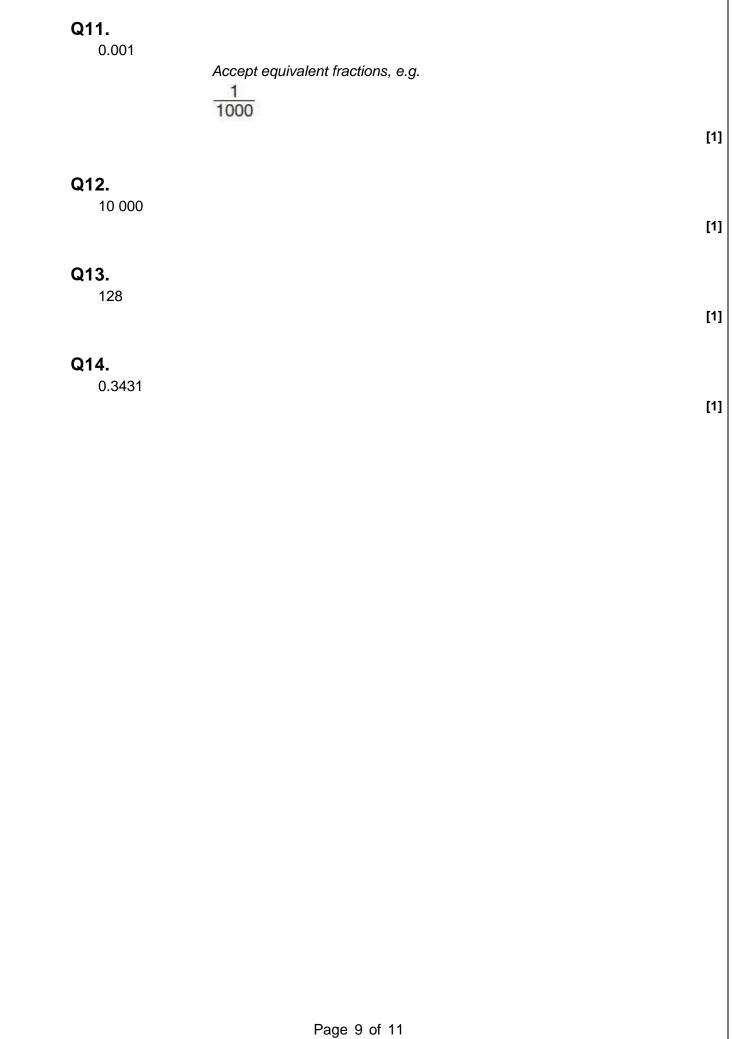
Answers

Maths Arithmetic & Reasoning Activity Multiplying and dividing by 10,100 and 1000

P4L:



Warming up*		
Q1. 370		[1]
Q2. 26		[1]
Q3. 200		[1]
Q4. 460		
Q5. 0.009		[1]
Q6. 101,000		[1]
Q7. 41,200		[1]
Q8. 9.831		[1]
Q9. 0.004		[1]
Q10. 206.1		[1]
		[1]
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Feeling more confident**

Q1.

The correct number circled as shown:

9,700 907 9,007 970 **9,070**

Accept alternative unambiguous positive indications, e.g. number ticked.

er tickea.

Q2.

34

[1]

[1]

Q3.

10

[1]

Q4.

Award **TWO** marks for all four values correct as shown:

If the answer is incorrect, award **ONE** mark for three values correct.

Up to 2

[2]

Q5.

AND

Numbers within calculations may be given in either order.

[1]

Q6.

All three correct 35.05 100 1000

2

1

or

Any two correct

[2]

Ready for a challenge***

- 1. If Ayaan gets 1.25p pocket money a week, how much will he get in 10 weeks? 12.50
- 2. 10 children share 1240 gummy bears. How many gummy bears do they each get? 124
- 3. 100 books cost £165. How much does one book cost? £16.50
- 4. A book is 5mm thick. How thick would 1000 books be? 5000mm
- 5. $1131 \div 1000 = 1.131$