Multiplying and dividing by 10,100 and 1000
Watch this clip to help you revise multiplying and dividing by 10, 100, and 1000.

Multiplying and Dividing by 10, 100 and 1000

| 10000 | 1000 | 100 | 10 | 1 | $\bullet$ | $\frac{1}{10}$ | $\frac{1}{100}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | $\frac{1}{1000}$ |  |  |  |  |  |  |



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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

| 10000 | 1000 | 100 | 10 | 1 | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | $\ddots$ |  |  |

Multiplying
$\times 10$
$\times 100$
X 1000

## Dividing



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 $\mathbf{1 0}$ 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.
$75 \div$ $\square=7.5$

Q4.

Complete these calculations.


## Q5.

Here are five number cards.
0.47 10 100 4.07

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 5 mm 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

Q2. 26

Q3. 200

Q4.
460

Q5.
0.009

Q6.
101,000

Q7. 41,200

Q8.
9.831

Q9.
0.004

Q10.
206.1

Q11.
0.001

> Accept equivalent fractions, e.g.
> $\frac{1}{1000}$

Q12.
10000

Q13.
128

Q14.
0.3431

## Feeling more confident**

## Q1.

The correct number circled as shown:


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

Q2. 34

Q3.
10

Q4.
Award TWO marks for all four values correct as shown:

$$
15 \times 100=\begin{gathered}
150 \\
0
\end{gathered}
$$

$150 \times 10=1500$
$\begin{aligned} & 1500 \\ & 0\end{aligned} \div 100=150$

$$
150 \div 10=15
$$

If the answer is incorrect, award ONE mark for three values correct.
Up to 2

Q5.
$47 \div$ $\square$ $=$ $\square$

AND
4.07
$\times$ $\square$ $=40.7$

## Numbers within calculations may be given in either order.

Q6.
All three correct
35.05

100
1000
or
Any two correct

## Ready for a challenge***

1. If Ayaan gets 1.25 p 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 5 mm thick. How thick would 1000 books be? 5000 mm
5. $1131 \div 1000=1.131$
