

Maths Mastery

Multiply and Divide by 10, 100 and 1000

Challenge Cards



Multiply by 10

1. Correct the calculations that are incorrect:

$$34 \times 10 = 340$$

$$0.6 \times 10 = 60$$

$$5.7 \times 10 = 57$$

$$0.003 \times \times 10 = 0.3$$

$$8900 \times 10 = 890$$

$$902 \times 10 = 9200$$

$$8.03 \times 10 = 80.3$$



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Multiply by 10

2. Correct the calculations that are incorrect:

$$212 \times 10 = 2120$$

$$0.05 \times 10 = 5$$

$$34.91 \times 10 = 349.1$$

$$50.3 \times 10 = 503$$

$$0.52 \times 10 = 52$$

$$9.09 \times 10 = 99$$

$$71\ 000 \times 10 = 710\ 000$$



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Divide by 10

3. Here is a calculation:

$$0.3 \div 10 =$$

Calculate the answer.

Give two different real life examples where this calculation would be used to give the answer.

Explain how to calculate the answer.



Multiply by 100

4. In which of these problems will the answer be found by multiplying by 100. Calculate the answers.
- 100 children are each given £1.20. How much money is given out altogether?
 - At a school disco, there are 34 litres of lemonade. The 100 children at the disco are each given an equal share. How much lemonade does each child receive?
 - Some children lay 100 pencils in a long line. Each pencil is 0.14m long. What is the length of the line of pencils?

Divide by 100

5. Correct the calculations that are incorrect:
- $$6 \div 100 = 0.06$$
- $$34 \div 100 = 0.034$$
- $$5.7 \div 100 = 0.057$$
- $$0.3 \div 100 = 0.03$$
- $$8900 \div 100 = 89$$
- $$902 \div 100 = 0.92$$
- $$8.03 \div 100 = 0.083$$



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Divide by 100

6. Correct the calculations that are incorrect:

$$212 \div 100 = 2.12$$

$$500 \div 100 = 5$$

$$34.91 \div 100 = 0.349$$

$$50.3 \div 100 = 0.5003$$

$$520 \div 100 = 5.2$$

$$9.09 \div 100 = 0.099$$

$$71\ 000 \div 100 = 71$$



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Multiply by 1000

7. Here is a calculation:

$$0.04 \times 1000 =$$

Calculate the answer.

Give two different real life examples where this calculation would be used to give the answer.

Explain how to calculate the answer.

