

Maths Mastery

Multiply and Divide by 10, 100 and 1000



Multiply by 10

Correct the calculations that are incorrect:

$$34 \times 10 = 340$$

correct

$$0.6 \times 10 = 60$$

incorrect = 6

$$5.7 \times 10 = 57$$

correct

$$0.003 \times 10 = 0.3$$

incorrect = 0.03

$$8900 \times 10 = 890$$

incorrect = 89 000

$$902 \times 10 = 9200$$

incorrect = 9020

$$8.03 \times 10 = 80.3$$

correct

Hide
Answers



Multiply by 10

Correct the calculations that are incorrect:

$$212 \times 10 = 2120$$

correct

$$0.05 \times 10 = 5$$

incorrect = 0.5

$$34.91 \times 10 = 349.1$$

correct

$$50.3 \times 10 = 503$$

correct

$$0.52 \times 10 = 52$$

incorrect = 5.2

$$9.09 \times 10 = 99$$

incorrect = 90.9

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

correct

Hide
Answers



Divide by 10

$$0.3 \div 10 = 0.03$$

Suggested Answers.

Example 1: Jez has 0.3 litres of milk. He shares the milk equally into 10 cups. How much milk is in each cup?

Example 2: Jez has \$0.30. He divides the money into 10 equal amounts. How much is each amount?

Dividing by 10 will make a number smaller. Practically, this means moving the digits one place value to the right. In this case 0.3 becomes .03, and by convention, we write a 0 in front of the decimal place to become 0.03.



Hide
Answers



Multiply by 100



In which of these problems will the answer be found by multiplying by 100. Calculate the answers.

1. 100 children are each given \$1.20. How much money is given out altogether?

Yes, \$120

2. 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?

No, $34 \div 100 = 0.34\text{l}$

3. Some children lay 100 pencils in a long line. Each pencil is 0.14m long. What is the length of the line of pencils?

Yes, 14m

Hide
Answers



Divide by 100

Correct the calculations that are incorrect:

$$6 \div 100 = 0.06$$

correct

$$34 \div 100 = 0.034$$

incorrect = 0.34

$$5.7 \div 100 = 0.057$$

correct

$$0.3 \div 100 = 0.03$$

incorrect = 0.003

$$8900 \div 100 = 89$$

correct

$$902 \div 100 = 0.92$$

incorrect = 9.02

$$8.03 \div 100 = 0.083$$

incorrect = 0.0803

Hide
Answers



Divide by 100

Correct the calculations that are incorrect:

$$212 \div 100 = 2.12$$

correct

$$500 \div 100 = 5$$

correct

$$34.91 \div 100 = 0.349$$

incorrect = 0.3491

$$50.3 \div 100 = 0.5003$$

incorrect = 0.503

$$520 \div 100 = 5.2$$

correct

$$9.09 \div 100 = 0.099$$

incorrect = 0.0909

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

incorrect = 710

Hide
Answers



Multiply by 1000

$$0.04 \times 1000 = 40$$

Suggested Answers.

Ella saves the \$0.04 change she gets from her bus fair each day. How much will she have saved after 1000 days?

A packet of nuts weights 0.04 kg. How much will 1000 packets weigh?

Multiplying by 1000 will make a number larger. Practically, this means moving the digits three place values to the left. In this case 0.04 becomes 40. The three steps are 0.4, 4, 40.



Hide
Answers





Divide by 1000

In which of these problems will the answer be found by dividing by 1000. Calculate the answers.

1. 1000 people attend a football match. All tickets are the same price. The total received is \$12 500. How much is each ticket?

Yes, \$12.50

2. A swimming pool attendant fills a swimming pool with 1000 equal buckets of water. There are 4520 litres in the pool. How much water is in each bucket?

Yes 4.52l

3. A baker makes 1000 pies in a week. Each pie is sold for \$1.45. All the pies are sold. How much does the baker take for all the pies?

No $\$1.45 \times 1000 = \1450

Hide
Answers



