

Two-Step Multiplication and Division Problems

Solve these two-step problems using your understanding of multiplication and division.

1 A teacher has 6 boxes of pencils. Each box has 12 pencils. She puts the pencils together and shares them equally into 8 pots. How many pencils will there be in each pot?

2 A baker has 314 cakes. The baker places the cakes into packs of 2. The baker then sells the packs for £4; how much money does the baker earn from selling all the packs?

Two-Step Multiplication and Division Problems

3 A school has 28 children in each of its 8 classes. At lunchtime, all the children must sit down at 7 big tables in the school hall. How many children are sitting at each long table in the hall?

4 A toy warehouse has 255 packs of 3 cars. The cars are to be re-boxed into packs of 5. How many packs of 5 can be made from these cars?

Two-Step Multiplication and Division Problems

5 Marbles are sold in bags of 10. A marble machine produces 490 marbles per hour. How many bags of 10 marbles can be filled by this marbles machine in six hours?

6 In the library, there are 9724 books. These books are donated equally to four different charities. The charities then sell the books in their shops for £2 each. How much money does each charity raise?

Two-Step Multiplication and Division Problems

7

A gymnastics team of 6 gymnasts trains for a combined total of 2238 minutes each week. Assuming each gymnast trains for an equal number of minutes, how many minutes does each train for in four weeks?

8

A snack factory makes 1134 bags of crisps in an hour. The bags of crisps are then packed into multi-packs of 9. How many multi-packs of crisps are made in three hours?

Two-Step Multiplication and Division Problems

9

A rugby team has had a budget of £3058 to spend in each of the last three years. During this time, they spent a quarter of the budget on rugby jerseys. How much did they buy the rugby jerseys for?

10

A market stall sells 294 bags of apples daily for a full week. One-third of these bags of apples are green apples. How many bags of green apples are sold?

Two-Step Multiplication and Division Problems – Answers

1. A teacher has 6 boxes of pencils. Each box has 12 pencils. She puts the pencils together and shares them equally into 8 pots. How many pencils will there be in each pot?

$$6 \times 12 = 72$$

$$72 \div 8 = 9$$

Answer: There are 9 pencils in each pot.

2. A baker has 314 cakes. The baker places the cakes into packs of 2. The baker then sells the packs for £4; how much money does the baker earn from selling all the packs?

$$314 \div 2 = 157$$

$$157 \times 4 = 628$$

Answer: The baker earns £628 from selling all the packs.

3. A school has 28 children in each of its 8 classes. At lunchtime, all the children must sit down at 7 long tables in the school hall. How many children are sitting at each long table in the hall?

$$28 \times 8 = 224$$

$$224 \div 7 = 32$$

Answer: 32 children sit on each long table in the school hall.

4. A toy warehouse has 255 packs of 3 cars. The cars are to be re-boxed into packs of 5. How many packs of 5 can be made from these cars?

$$255 \times 3 = 765$$

$$765 \div 5 = 153$$

Answer: 153 packs of 5 cars can be made.

5. Marbles are sold in bags of 10. A marble machine produces 490 marbles per hour. How many bags of 10 marbles can be filled by this marbles machine in six hours?

$$490 \times 6 = 2940$$

$$2940 \div 10 = 294$$

Answer: In six hours, 294 bags of 10 marbles can be filled.

Two-Step Multiplication and Division Problems – Answers

6. In the library, there are 9724 books. These books are donated equally to four different charities. The charities then sell the books in their shops for £2 each. How much money does each charity raise?

$$9724 \div 4 = 2431$$

$$2431 \times 2 = 4862$$

Answer: Each charity raised £4862.

7. A gymnastics team of 6 gymnasts trains for a combined total of 2238 minutes each week. Assuming each gymnast trains for an equal number of minutes, how many minutes does each train for in four weeks?

$$2238 \div 6 = 373$$

$$373 \times 4 = 1492$$

Answer: In four weeks, each gymnast trains for 1492 minutes.

8. A snack factory makes 1134 bags of crisps in an hour. The bags of crisps are then packed into multi-packs of 9. How many multi-packs of crisps are made in three hours?

$$1134 \div 9 = 126$$

$$126 \times 3 = 378$$

Answer: 378 multi-packs of crisps are made in 3 hours.

9. A rugby team has had a budget of £3058 to spend in each of the last three years. During this time, they spent a quarter of the budget on rugby jerseys. How much did they buy the rugby jerseys for?

$$3058 \times 3 = 9174$$

$$9174 \div 4 = 2,293.5$$

Answer: Over the three years, the rugby team spent £2,293.50 of their budget on rugby jerseys.

10. A market stall sells 294 bags of apples daily for a full week. One-third of these bags of apples are green apples. How many bags of green apples are sold?

$$294 \times 7 = 2,058$$

$$2058 \div 3 = 686$$

Answer: The market stall sells 686 bags of green apples this week.

We hope you find the information on our website and resources useful. As far as possible, the contents of this resource are reflective of current professional research. However, please be aware that every child is different and information can quickly become out of date. The information given here is intended for general guidance purposes only and may not apply to your specific situation.



visit [twinkl.com](https://www.twinkl.com)

