



Proportion and the Unitary Method

1. Six apples cost £1.20. Calculate the cost of five apples.
2. Eight bananas cost £1.92. Calculate the cost of three bananas.
3. Three jumpers cost £29.85. Calculate the cost of four jumpers.
4. Three friends pay £6.20 each for a taxi ride. If four friends shared the cost of a taxi for the same journey, how much would each friend pay?
5. There are 1000 metres in a kilometre. How many metres are there in three quarters of a kilometre?
6. If four builders take two days to replace a roof, how many days would it take two builders to replace the same roof?
7. There are 14mg of cholesterol in 100ml of milk. Calculate the amount cholesterol in 1.5 litres of milk.
8. Five miles is approximately equal to eight kilometres. Calculate an approximation for the number of miles in 600 kilometres.
9. When Sal went on holiday, she received eleven euros for every ten pounds she exchanged. If she exchanged £500, how many euros did she receive?
10. Sal returned from her holiday with €81 euros left. She was able to exchange them at a rate of £45 for €50. How many pounds did she receive?



Proportion and the Unitary Method **Answers**

1. Six apples cost £1.20. Calculate the cost of five apples.

$$1.20 \div 6 = \text{£}0.20$$

$$0.20 \times 5 = \text{£}1$$

2. Eight bananas cost £1.92. Calculate the cost of three bananas.

$$1.92 \div 8 = \text{£}0.24$$

$$0.24 \times 3 = \text{£}0.72 \text{ or } 72\text{p}$$

3. Three jumpers cost £29.85. Calculate the cost of four jumpers.

$$29.85 \div 3 = \text{£}9.95$$

$$9.95 \times 4 = \text{£}39.80$$

4. Three friends pay £6.20 each for a taxi ride. If four friends shared the cost of a taxi for the same journey, how much would each friend pay?

$$6.20 \times 3 = \text{£}18.60$$

$$18.60 \div 4 = \text{£}4.65$$

5. There are 1000 metres in a kilometre. How many metres are there in three quarters of a kilometre?

$$1000\text{m} \div 4 = 250\text{m}$$

$$250\text{m} \times 3 = 750\text{m}$$

6. If four builders take two days to replace a roof, how many days would it take two builders to replace the same roof?

$$4 \times 2 = 8 \text{ days}$$

$$8 \div 2 = 4 \text{ days}$$

7. There are 14mg of cholesterol in 100ml of milk. Calculate the amount cholesterol in 1.5 litres of milk.

$$14 \div 100 = 0.14\text{mg}$$

$$0.14 \times 1500 = 210\text{mg}$$

8. Five miles is approximately equal to eight kilometres. Calculate an approximation for the number of miles in 600 kilometres.

$$5 \div 8 = 0.625 \text{ miles}$$

$$0.625 \times 600 = 375 \text{ miles.}$$

9. When Sal went on holiday, she received eleven euros for every ten pounds she exchanged. If she exchanged £500, how many euros did she receive?

$$11 \div 10 = \text{€}1.1$$

$$1.1 \times 500 = \text{€}550$$

10. Sal returned from her holiday with €81 euros left. She was able to exchange them at a rate of £45 for €50. How many pounds did she receive?

$$45 \div 50 = \text{£}0.90$$

$$0.90 \times 81 = \text{£}72.90$$