GCSE Maths: Proportion: the unitary method and best buy (Foundation): worksheet

GCSE Maths - Ratio and Proportion - Foundation - Lesson 15.7

Name: _____ Date: _____ Score: _____

15 questions. Write your answers in the spaces. Answers and step-by-step help are free at **websink.site/gcse/maths/ch15-ratio-proportion/foundation/proportion-the-unitary-method-and-best-buy/**

Exercise 15G Unitary method and best buy

Calculator allowed

1 **Work out the cost.**

(a) 4 pens cost £2.80. Find the cost of 7 pens.

Answer:

(b) 6 buns cost £4.50. Find the cost of 10 buns.

Answer:

(c) 5 kg of apples cost £12. Find the cost of 8 kg.

Answer:

(d) 12 eggs cost £3. Find the cost of 18 eggs.

Answer:

(e) 3 books cost £14.25. Find the cost of 5 books.

Answer:

(f) 8 metres of cloth cost £34. Find the cost of 5 metres.

Answer:

2 **3 pencils cost 90p. Work out the cost of 5 pencils.**

Answer:

3 **A car uses 6 litres of petrol to travel 90 km. How many litres does it need to travel 240 km?**

Answer:

4 **Maya types 150 words in 3 minutes. How many words can she type in 8 minutes at the same speed?**

Answer:

5 **A printer prints 120 pages in 8 minutes. How long will it take to print 300 pages?**

Answer:

6 **Which is the better buy, A or B? Show your working.**

(a) A: 500 g for £1.60. B: 750 g for £2.25.

Answer:

(b) A: 2 kg of rice for £3.20. B: 5 kg of rice for £7.50.

Answer:

(c) A: 1 litre of juice for £1.20. B: 1.5 litres for £1.65.

Answer:

(d) A: 80 tea bags for £2.40. B: 240 tea bags for £6.60.

Answer:

7 **Cola is sold in a 6-pack of cans for £2.70 and in a 10-pack for £4.20. Which pack is better value for money?**

Answer:

8 **Coffee is sold in three sizes: A is 250 g for £1.20, B is 400 g for £1.80 and C is 1 kg for £4.20. Which size is the best value for money?**

Answer:

9 **A shop sells a 200 g bar of chocolate for 90p and a 500 g bar for £2.50. Which bar gives you more chocolate for your money? How many grams of each do you get for £1?**

Answer:

10 **Zain earns £17.50 for 7 hours of work. At the same rate of pay, how much does he earn in 12 hours?**

Answer:

11 **A recipe for 12 biscuits uses 90 g of butter. Butter costs £1.80 for a 250 g block. How much does the butter cost for 40 biscuits? (Work out the cost for the exact amount of butter.)**

Answer:

12 **Tickets for a concert are the same price each. 2 tickets cost £7. Complete the table: (a) the cost of 5 tickets, (b) the cost of 8 tickets, (c) the number of tickets that can be bought for £42.**

Tickets	2	5	8	?
Cost	£7	?	?	£42

(a) Cost of 5 tickets

Answer:

(b) Cost of 8 tickets

Answer:

(c) Number of tickets for £42

Answer:

13 **Large packs are always better value than small packs. Is this true? Use the prices in the previous question (200 g for 90p and 500 g for £2.50) to explain.**

Answer:

14 **Raj says: "5 notebooks cost £7.50, so 15 notebooks cost £7.50 + £10 = £17.50, because you buy 10 more." Explain his mistake and work out the correct cost.**

Answer:

15 **A shop sells pens in packs. Pack A has 6 pens for £2.10. Pack B has 10 pens for £3.20. Sara needs exactly 30 pens. What is the cheapest way to buy exactly 30 pens, and how much does it cost? Show how you decide.**

Answer:

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