CRAFT

Show All Your Working Out

Re-Teach

1. If 3 books cost £12, how much do 7 books cost?
2. A pack of 4 batteries costs £5. How much would 10 batteries cost?
3. A recipe for 6 people requires 300g of flour. How much flour is needed for 10 people?
4. 5 identical DVDs cost £20. What is the cost of 9 of these DVDs?
5. A car travels 180 miles on 15 litres of petrol. How far can it travel on 25 litres?

Consolidate

1. The exchange rate is £1 = $1.25. How many dollars would you get for £80?
2. A machine fills 12 bottles in 5 minutes. How many bottles can it fill in 1 hour?
3. If 8 pencils cost £1.20, how much would 15 pencils cost?
4. The exchange rate is €1 = £0.85. How many pounds would you get for €240?
5. A factory makes 45 toys in 3 hours. How many toys can it make in an 8-hour day?

Master

1. An architect's scale drawing uses a scale of 1:150. If a wall is 12 cm long on the drawing, how long is the actual wall in metres?
2. The exchange rate from pounds to US dollars is £1 = $1.28, and from dollars to euros is $1 = €0.92. How many euros would you get for £50?
3. A map has a scale of 1:25,000. The distance between two villages is 8 cm on the map. What is the actual distance in kilometres?
4. A recipe for 4 people requires 15 cm of ginger, grated. A piece of ginger costs 45p and is 25 cm long. What is the cost of the ginger needed for 10 people?
5. A car's fuel consumption is 55 miles per gallon. Petrol costs £1.45 per litre. There are 4.5 litres in a gallon. How much does it cost to travel 200 miles?

Answers

Re-Teach Answers

1. Cost per book = £12 ÷ 3 = £4. Cost for 7 books = 7 × £4 = £28.

2. Cost per battery = £5 ÷ 4 = £1.25. Cost for 10 batteries = 10 × £1.25 = £12.50.

3. Flour per person = 300g ÷ 6 = 50g. Flour for 10 people = 10 × 50g = 500g.

4. Cost per DVD = £20 ÷ 5 = £4. Cost for 9 DVDs = 9 × £4 = £36.

5. Miles per litre = 180 ÷ 15 = 12 miles. Distance on 25 litres = 25 × 12 = 300 miles.

Consolidate Answers

1. Dollars = £80 × 1.25 = $100.

2. Number of 5-minute intervals in 1 hour (60 minutes) = 60 ÷ 5 = 12. Bottles filled = 12 × 12 = 144 bottles.

3. Cost per pencil = £1.20 ÷ 8 = £0.15. Cost for 15 pencils = 15 × £0.15 = £2.25.

4. Pounds = €240 × 0.85 = £204.

5. Toys per hour = 45 ÷ 3 = 15 toys. Toys in 8 hours = 8 × 15 = 120 toys.

Master Answers

1. Actual length = 12 cm × 150 = 1800 cm. In metres = 1800 ÷ 100 = 18 m.

2. First, convert £ to $: £50 × 1.28 = $64. Then, convert $ to €: $64 × 0.92 = €58.88.

3. Actual distance = 8 cm × 25,000 = 200,000 cm. In metres = 200,000 ÷ 100 = 2,000 m. In kilometres = 2,000 ÷ 1,000 = 2 km.

4. Ginger per person = 15 cm ÷ 4 = 3.75 cm. Ginger for 10 people = 10 × 3.75 cm = 37.5 cm. Cost per cm = 45p ÷ 25 = 1.8p. Total cost = 37.5 × 1.8p = 67.5p, or £0.68.

5. Gallons needed for 200 miles = 200 ÷ 55 = 40/11 gallons. Litres needed = (40/11) × 4.5 = (40 × 4.5) / 11 = 180 / 11 ≈ 16.36 litres. Cost = 16.36 × £1.45 ≈ £23.72.