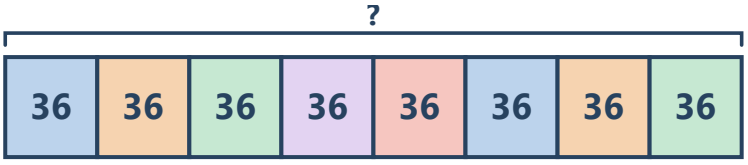
Year 4: Word problems with bar models: answers

Year 4 - Short Multiplication and Short Division - Lesson 4.7

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at **websink.site/ks2-sats/maths/year-4/ch04-multiplying-dividing/word-problems-with-bar-models/**

Exercise 4G Word problems with bar models (Non-calculator)

1 A shop has 8 boxes of pencils. Each box holds 36 pencils. The shop sells 95 pencils. How many pencils are left?



Answer: 193 pencils

2 Sam buys 5 tickets at £14 each and 2 drinks at £3 each. How much does he spend altogether?

Answer: £76

3 A comic costs 85p. Zainab buys 4 comics and pays with a £5 note. How much change does she get? Give your answer in pence.

Answer: 160p

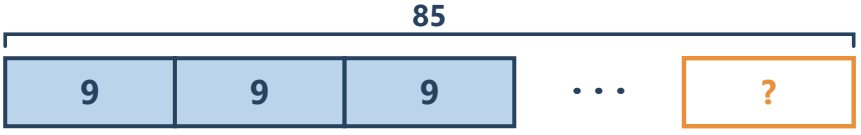
4 5 identical notebooks cost £45. How much do 8 of these notebooks cost?

Answer: £72

5 A bakery sells 138 loaves on Saturday and 144 loaves on Sunday. The baker packs all of these loaves equally into 6 crates. How many loaves are in each crate?

Answer: 47 loaves

6 85 pupils are going to a museum. Each minibus holds 9 pupils and costs £30 to hire. How much does it cost to hire enough minibuses for all 85 pupils?



Answer: £300

7 Tom's rope is 125 cm long. Sue's rope is 3 times as long as Tom's. How much longer is Sue's rope than Tom's rope?

Answer: 250 cm

8 A farm packs 6 eggs in each box. A crate holds 8 boxes. The farm fills 5 crates. How many eggs is that?

Answer: 240

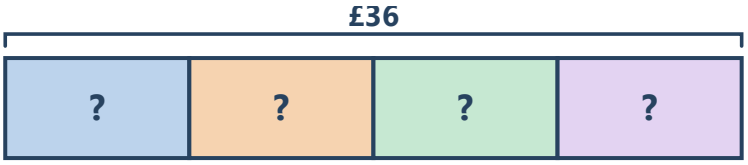
9 A rope is 245 m long. 35 m is cut off and used. The rest is cut into 7 equal pieces. How long is each piece?

Answer: 30 m

10 Adult tickets cost £8 and child tickets cost £5. A family buys 2 adult tickets and 3 child tickets. They pay with a £50 note. How much change do they get?

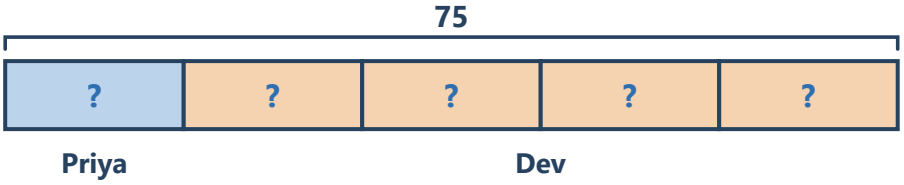
> **Answer:** £19

11 Leo says, "4 tickets cost £36. So 8 tickets cost £36 + £8 = £44." Explain Leo's mistake and work out the correct cost of 8 tickets.



> **Answer:** £72

12 Dev has 4 times as many marbles as Priya. Together they have 75 marbles. How many marbles does Dev have?



> **Answer:** 60 marbles (Priya has 15)

13 Always, sometimes or never? A number that divides exactly by 6 also divides exactly by 3.

> **Answer:** Always

14 Show that 6 × 24 = 3 × 48. Explain why this works.

> **Answer:** Both are 144. 6 is double 3 and 24 is half of 48.

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