

Year 5: Bar models and multi-step problems: answers

Year 5 - Column Addition and Subtraction - Lesson 2.5

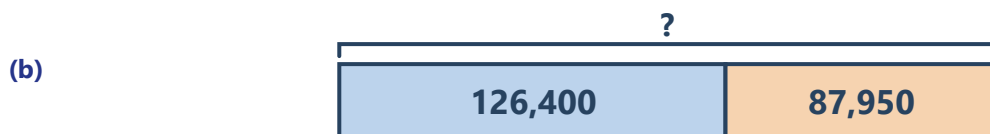
Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-5/ch02-addition-subtraction/bar-models-and-multi-step-problems/

Exercise 2E Bar models and multi-step problems Non-calculator

1 Find the total in each bar model. Work out the number that replaces the question mark.



Answer: 83,950

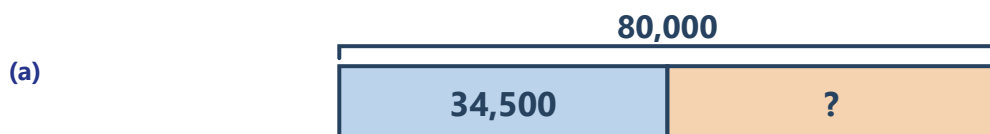


Answer: 214,350

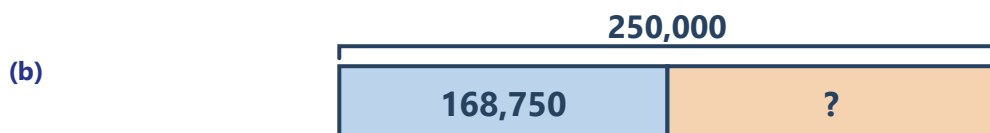


Answer: 599,500

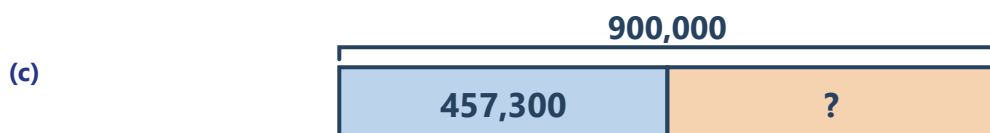
2 Find the missing part in each bar model.



Answer: 45,500



Answer: 81,250



Answer: 442,700

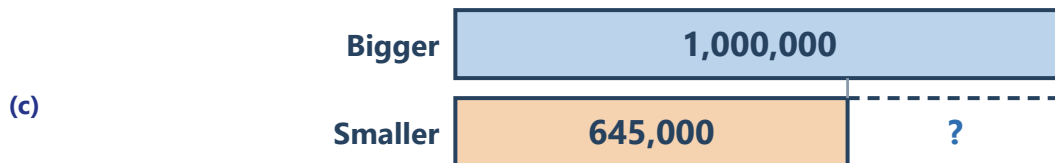
3 Find the difference between the two amounts in each bar model.



Answer: 24,250

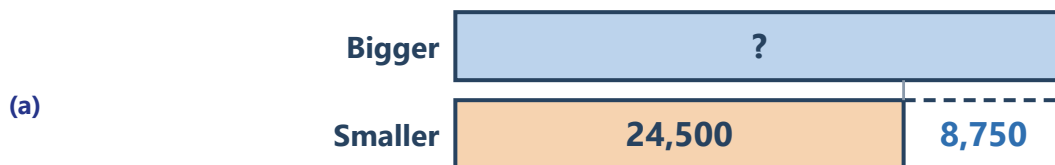


Answer: 223,600



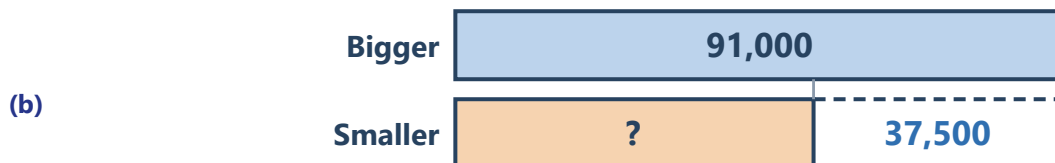
Answer: 355,000

4 Find the number that replaces the question mark in each comparison bar model.



Find the bigger amount.

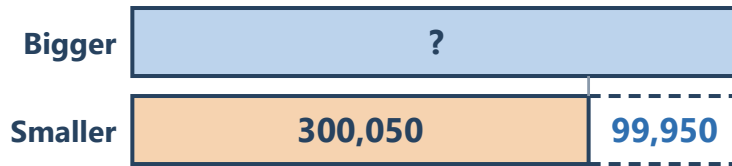
Answer: 33,250



Find the smaller amount.

Answer: 53,500

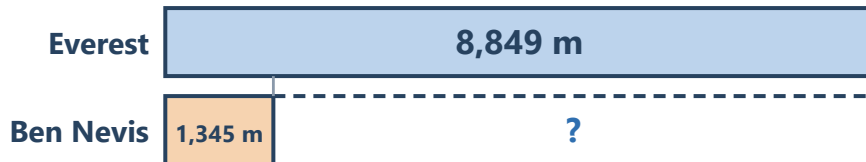
(c)



Find the bigger amount.

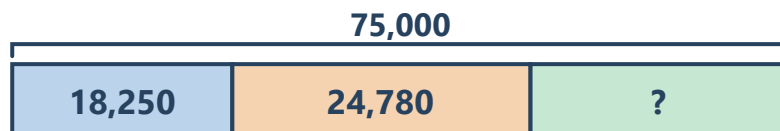
Answer: 400,000

- 5 Mount Everest is 8,849 m high. Ben Nevis is 1,345 m high. How much higher is Mount Everest than Ben Nevis?



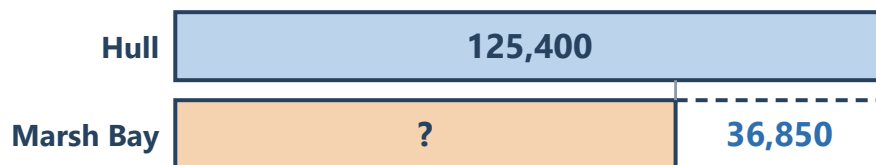
Answer: 7,504 m

- 6 A water tank holds 75,000 litres. A factory uses 18,250 litres on Monday and 24,780 litres on Tuesday. How many litres are left?



Answer: 31,970 litres

- 7 Hull has 125,400 people. Marsh Bay has 36,850 fewer people than Hull. How many people live in Hull and Marsh Bay altogether?



Answer: 213,950 people

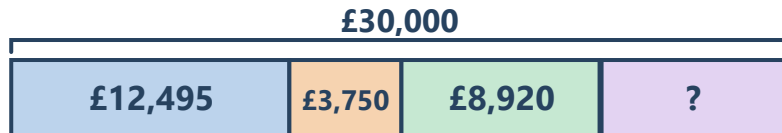
- 8 A festival site has 48,600 people in it. 15,750 people leave and 22,400 people arrive. How many people are on the site now?

Answer: 55,250 people

- 9 Dev drives 18,650 km one year and 27,340 km the next. Mia drives 52,000 km in the same two years. How much further does Mia drive than Dev?

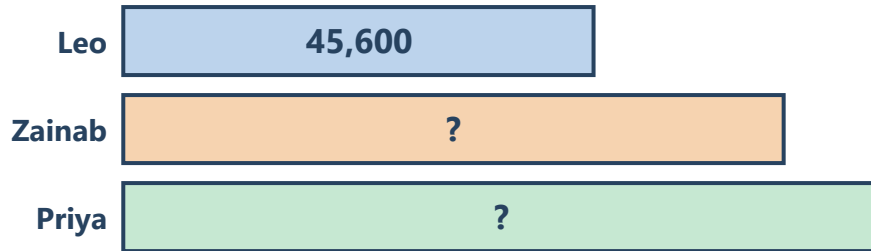
Answer: 6,010 km

- 10 A club has £30,000. It buys a minibus for £12,495, a trailer for £3,750 and sports kit for £8,920. How much money does the club have left?



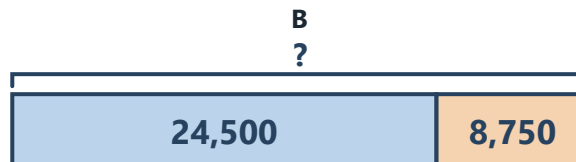
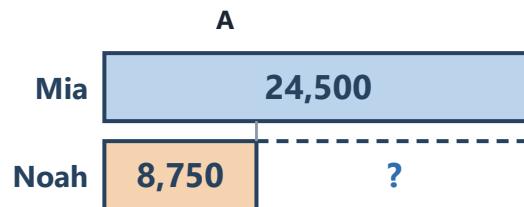
Answer: £4,835

- 11** In a quiz, Leo scores 45,600 points. Zainab scores 18,400 more points than Leo. Priya scores 9,250 more points than Zainab. How many points do the three children score altogether?



Answer: 182,850 points

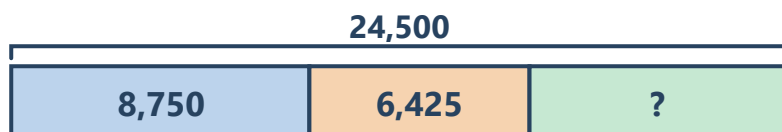
- 12** Mia has 24,500 stickers. Noah has 8,750 stickers. How many more stickers does Mia have than Noah? Which bar model, A or B, matches the question? Then answer the question.



Answer: A. Mia has 15,750 more stickers.

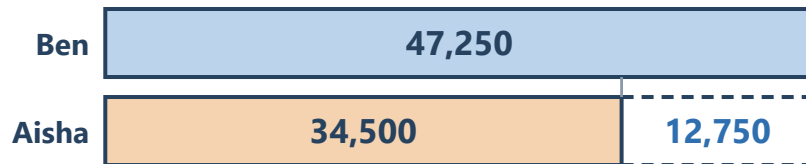
- 13** A baker makes 24,500 rolls. She sells 8,750 rolls in the morning and 6,425 rolls in the afternoon. Which two calculations show how many rolls are left? Tick **two** boxes.

- A $24,500 + 8,750 + 6,425$
 B $24,500 - 8,750 - 6,425$
 C $24,500 - 8,750 + 6,425$
 D $24,500 - (8,750 + 6,425)$



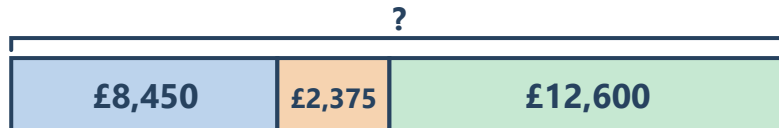
Answer: B and D

- 14** Aisha scores 34,500 points. Ben scores 12,750 more points than Aisha. How many points do Aisha and Ben score altogether? Ravi says the answer is 47,250. What mistake did Ravi make? What is the correct answer?



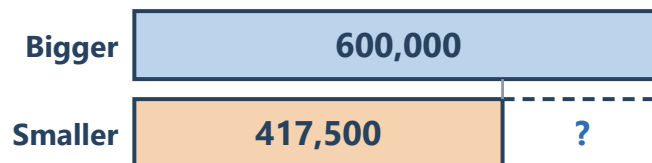
Answer: Ravi only did step 1. The answer is 81,750.

- 15** A school buys a laptop for £8,450 and a printer for £2,375. After that it has £12,600 left. How much money did the school have at the start?



Answer: £23,425

- 16** Prove it. Priya says, "To find the difference between 600,000 and 417,500, I can work out $417,500 + ? = 600,000$." Is Priya right? Work out the difference to find out.



Answer: Yes. The difference is 182,500.