

- 1) Use the bar model to help you find the answers to these questions.



I am up to page 127 in my 'Sweets and Treats' book. I need to read 96 more pages in order to be halfway through my book. How many pages does my book have altogether?

127	96
$\frac{1}{2}$ book =	



$\frac{1}{2}$ book =	$\frac{1}{2}$ book =
whole book =	

- 2) Here is a bar model to represent three unknown numbers.

A	
B	C

- When B and C are added together, they make A.
- B is twice the value of C.
- A is a number between 100 and 200.

Give three possible values for each of A, B and C.

- 3) Answer these problems in words by thinking about the key information in the question.

- a) 168 parents watched the performance of a class play on Monday evening. On Tuesday evening, there were 29 fewer parents watching the performance. How many parents altogether watched the performances?
- b) The school hall is normally able to seat 350 people. There are 10 rows of seats with 35 seats in each row. Tonight, it can only fit in 9 rows of seats. If all of the above parents came tonight, would there be any seats left over?
- c) Megan, Sadie and Ola have a combined age of 81. The combined age of Megan and Sadie is 52. If Megan is 24, how old must Sadie and Ola be?
- d) The 'Healthy Scrumptious Snacks' cafe has just opened. It is looking at how much money it made in sales of food and drinks in the first two months. It sold £9456 worth of food and £3567 worth of drinks in the first month. In the second month, it made £380 less from food sales and £650 less from drinks sales than in the first month. The cafe's target was to sell £26 500 worth of food and drinks in the first two months. How much more did they need to sell to meet their target?

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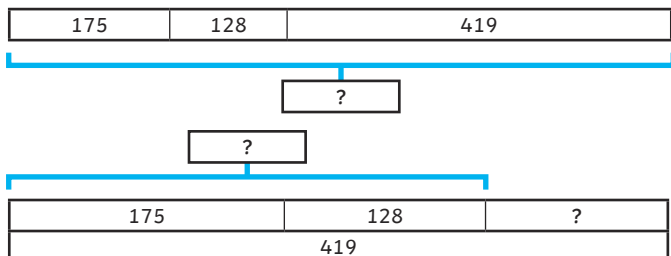
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- 1) Two children are discussing this word problem:



"Some people are on a train. 175 people get on the train at one stop. 128 more people get on at the next stop. There are now 419 people on the train. How many people were on the train at the start of the journey?"

I think that my bar model represents the problem correctly.



I disagree with Isaac and think my bar model represents the problem correctly.

Which child do you agree with? Explain your reasoning.

- 2) Three children record their calculations in order to show how they worked out this problem:

"I decide to buy my lunch from my local shop. One sandwich and a bottle of juice costs £2.26. If I were to buy one sandwich and two bottles of juice, it would cost £2.91. I decide that I will just buy a sandwich on its own. How much will the sandwich cost me?"



I recorded this calculation to solve the problem:

$$£2.91 \div 3 = 97p$$

$$£2.26 - 97p = £1.29$$

The cost of one sandwich is £1.29.

I recorded my calculation like this:

$$£2.91 - £2.26 = 65p$$

$$£2.26 - 65p = £1.61$$

The cost of one sandwich is £1.61.



This was my calculation:

$$£2.26 \div 2 = £1.13$$

$$£2.90 - £1.13 = £1.77$$

The cost of one sandwich is £1.77.

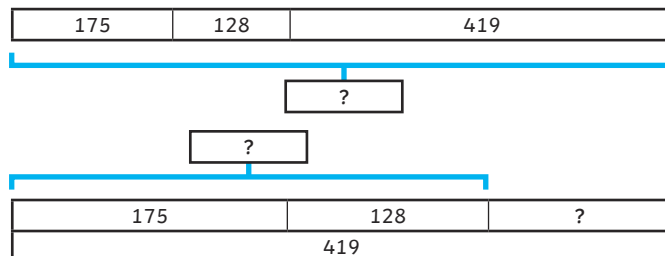
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- 1) Halim has £25 in his Twinkl Tunes account to spend on music. He downloads 'Twinkl Chill' for £5.50 and 'Twinkl Pop' for £6.80. The next two albums, 'Twinkl Rocks' and 'Twinkl Moves' cost the same amount each. When he has finished downloading all four albums, he has £1.50 left in his account. How much did 'Twinkl Rocks' and 'Twinkl Moves' cost Halim each?



- 2) Halim decided to load £20 onto his 'Twinkl Tunes' account. The prices of some of the albums that Halim is interested in buying are shown below.



- What combination of three albums would leave him with the most money in his account? How much would he be left with?
- Which three albums would leave him with the least amount of money? How much would he be left with?
- What is the maximum number of albums he could buy with his £20? How much money would he be left with?
- Give different combinations of albums that Halim could buy with the following amounts of money. Remember to state how much money would be left in his account each time.

£10	£13	£15

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