L.O. I can solve worded problems using addition and subtraction.

Problem:

The coach had 18 passengers.

It stopped.

6 people got off and 10 people got on.

How many passengers are now on the coach?



1st step: Calculation needed

2nd step: Calculation needed

Answer to calculation:

12

Answer to problem:

<u> 22</u>

Problem:

Matrice has 55p and Karen has 15p.

How much more do they need to buy a magazine for £1?



$$55p+15p=70$$

2nd step: Calculation needed

$$100p-70p=30p$$

Answer to calculation:

70p

Answer to problem:

30p



Problem:

2 UFOs landed on earth.

Each UFO contained 20 aliens.

12 of the aliens did not like earth so returned to their home planet.

How many aliens remained on earth?



1st step: Calculation needed

$$2x20 = 40$$

2nd step: Calculation needed

$$40-12=28$$

Answer to calculation:

40

Answer to problem:

28

A Problem to Solve

Alfie has a two-step calculation. He needs to write a word problem for which the calculation provides the answer.



Write a word problem for the above calculation.

How can you improve your problem?

Write a two-step calculation for your partner to create a word problem for.

Possible answer

I had 487 Lego blocks, and my friend gave me 1026. Then I had 1513, but I lost 876. How many I block I have now?

Which Order?

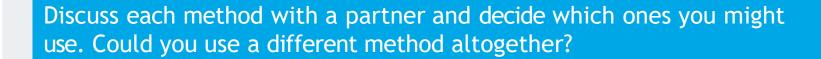
Fatima, Alfie and Laura are all finding the total of 340 + 271 + 160. Here are the methods they used:

$$340 + 271 = 611, 611 + 160 = 771$$



$$340 + 160 = 500, 500 + 271 = 771$$

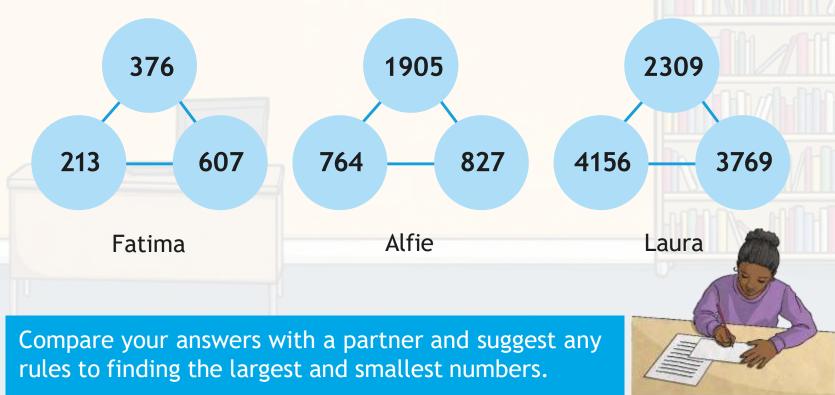
$$34 + 27 + 16 = 77$$
,
so $340 + 270 + 160 = 770$,
so $340 + 271 + 160 = 771$



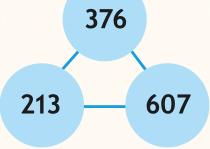
Triangles

Fatima, Alfie and Laura each make a number triangle. For each, using addition and subtraction, find the largest and smallest number that can be made using each number.

You can only use each number once and your answer must be greater than 0.



Triangles Answers



Fatima:

The largest is found by adding the 3 numbers.

1905 764 827

Alfie:

The smallest is the difference between the largest and the sum of the other 2 numbers.

2309 4156 — 3769

Laura:



What's Wrong?

Fatima is working on this word problem:

On one day, a cinema has 4012 adult, 367 student and 1786 child visitors. 1276 of the visitors have cinema cards so do not pay for their tickets. How many tickets were sold on that day?

Fatima uses the following calculations:

1786 - 1276 = 510, 4012 + 367 + 510 = 4889 4889 tickets were sold.

What is wrong with Fatima's answer?

Her answer is correct, but her calculations assume that all the visitors with cinema cards were children.

Discuss which method you would have used.

