

### Problem solving – addition and subtraction 2

#### Discover

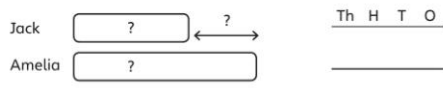


- 1 a) Show that Luis has more using a bar model.
- b) Calculate how much more Luis has than Danny.

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#### Think together

- 1 Amelia is playing a game with her brother Jack. Amelia has 1,050 points and Jack has 678 points. How many fewer points does Jack have?



=

Jack has  fewer points than Amelia.

- 2 Isla has 875 points more than her dad. Her dad has 975 points. How many points does Isla have?



Isla has  points.

This time I already know the difference. I wonder what I have to calculate here.



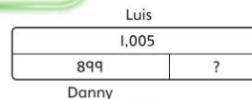
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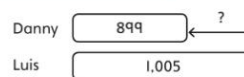
a)



I showed that Luis has more by making his bar wider.



A single bar model can be useful when you want to work out a whole or a part. A comparison bar model is useful when you need to compare amounts.



b)

Th	H	T	O	Th	H	T	O
1	0	6	5	1	0	0	6
-	8	9	9	-	9	0	0
1	0	6	6	1	0	6	6

1,005 - 899 = 106. Luis has 106 more points than Danny.

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- Choose whether to use a single bar model or a comparison bar model to show each of these problems. Then work out the answer to each problem.



a) I am thinking of a number. I subtract 100 from it and get 5,250. What was my number?

b) I am thinking of a number. Max thinks of a number 750 less than my number. His number is 5,250. What was my number?

c) I am thinking of a number. Then I add 750 to it. Now I have 5,250. What number did I think of to start with?

d) I am thinking of two numbers. One number is 2,000 more than the other. What could the numbers be?

I think one of these has more than one possible solution.



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