







# Power Up

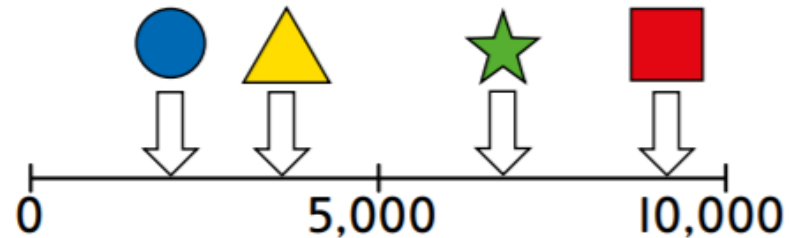
Estimate the answer to each calculation.

Now complete the number sentences using  $>$ ,  $<$  or  $=$ .

$3,450 + 1,995$	<input type="radio"/>	$5,000$
$5,000$	<input type="radio"/>	$6,350 - 1,850$
$3,479 + 1,521$	<input type="radio"/>	$5,000$

Use the number line to estimate whether the answer to each number sentence will be greater or less than 6,000.

 - 	<input type="text"/> - <input type="text"/>	<input type="radio"/> 6,000
 + 	<input type="text"/> + <input type="text"/>	<input type="radio"/> 6,000
 - 	<input type="text"/> - <input type="text"/>	<input type="radio"/> 6,000



# Problem solving – addition and subtraction 2



## Discover

Luis has much more than me!



Danny

Not that much more.



Luis



Scores	
Danny	Luis
899	1,005

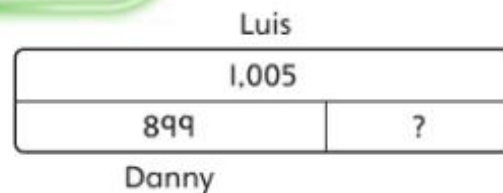
- Show that Luis has more using a bar model.
- Calculate how much more Luis has than Danny.

## Share

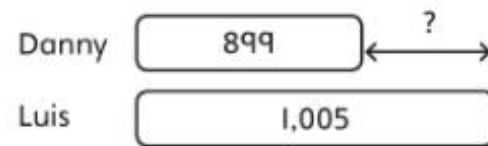
a)



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)

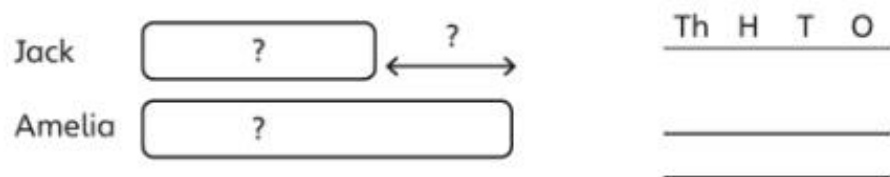
	Th	H	T	O
	1	0	0	5
-		8	9	9
	1	0	6	

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

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

## 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.



CHALLENGE

- 3 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.



## Problem solving – addition and subtraction 2

- 1 a) Ebo has 1,020 football stickers. Richard has 820 football stickers.  
How many more stickers does Ebo have?

Richard 

820
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 $\longleftrightarrow$ 

Th	H	T	O
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Ebo 

1,020
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Ebo has  more stickers.

- b) Reena collects 1,500 stickers. How many fewer stickers does Ebo have than Reena?

Reena 

1,500
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Th	H	T	O
----	---	---	---

Ebo 

--	--	--	--

Ebo has  fewer stickers than Reena.

- c) Luis has 250 more stickers than Reena. Show this on a bar model and find how many stickers Luis has in total.

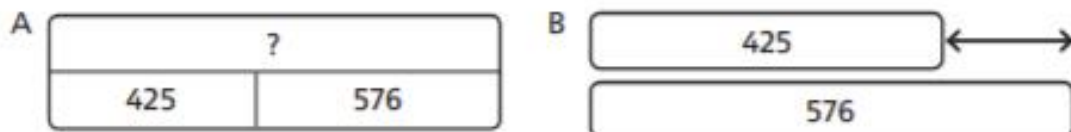
Luis

Reena

Luis has  stickers in total.

- 2 Mo collects 425 shells and Lee collects 576 shells. How many more shells does Lee collect?

Explain which bar model suits this problem.



I think A / B suits this problem best because \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- 3 Draw a bar model and solve this problem.

Max has 1,500 ml of paint. Isla has 750 ml more paint than Max.

Max uses 500 ml of paint. Isla also uses some paint and now they have the same amount of paint left as each other.

How much paint did Isla use?

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- 4 Solve this story problem by drawing bar models.

Bella, Aki and Andy each think of a number.

Bella's number is 875 more than Aki's number.

Aki subtracts 499 from his number. Now Aki's number is 245 less than Andy's number.

What is the difference between Bella's number and Andy's number?



The difference between Bella's number and Andy's number

is  .

## Reflect

- I would draw a comparison bar model when \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

- I would draw a single bar model when \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_