

### Problem solving – addition and subtraction 1



#### Discover



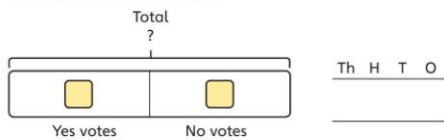
- Show how to find the number of votes for Yes using a diagram.
- Decide on the best strategy to calculate the answer. Did Yes or No get more votes?

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#### Think together

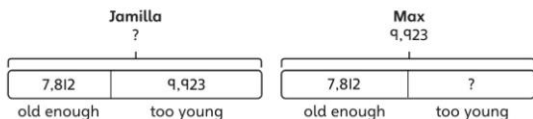
- In another vote, 1,775 people voted Yes and 3,007 voted No. How many people voted?

Add the information to the bar model, then show the calculation to find the answer.



people voted.

- Jamilla and Max have drawn bar models to solve this problem: 9,923 people live in a small town. 7,812 people are old enough to vote. How many people are too young to vote? Discuss the bar models. What is right and wrong about each one?



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#### Share

a)

Both diagrams show the parts and the whole. The missing part is the number of Yes votes.

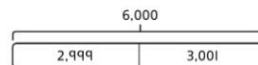
- We need to subtract to find the missing part.

Th	H	T	O	Th	H	T	O
<del>4</del>	<del>16</del>	<del>15</del>	<del>2</del>	<del>4</del>	<del>7</del>	<del>6</del>	<del>3</del>
-	2	8	9	-	2	9	0
2	8	6	3	2	8	6	3

There were 2,863 Yes votes. No got more votes because  $2,899 > 2,863$ .

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- Write four different missing number problems that could be shown by this diagram.



- Draw your own bar models to show these calculations.

- 199 = 2,475
- 2,475 - 199 =
- 199 = 2,475 -
- 199 + 2,475 =

I do not think I need to draw four different bar models.



**CHALLENGE**

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