Challenge Cards – Related facts

Reasoning and problem solving cards:

Use the numbers to create a bar model.

List the related facts:

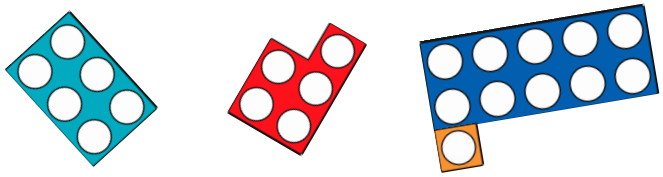
____ + ____ = ____

____ + ____ = ____

____ - ____ = ____

____ - ____ = ____

Use the number frames to create a bar model.



List the related facts:

____ + ____ = ____

____ + ____ = ____

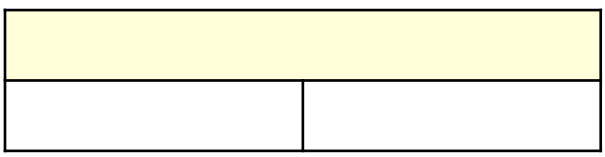
____ - ____ = ____

____ - ____ = ____

Colour the incorrect calculations.

8 + 9 = 17	8 – 9 = 17	9 + 8 = 17
9 – 8 = 17	17 - 9 = 8	17 + 8 = 9

Now, draw a bar model to represent the **correct** calculations.



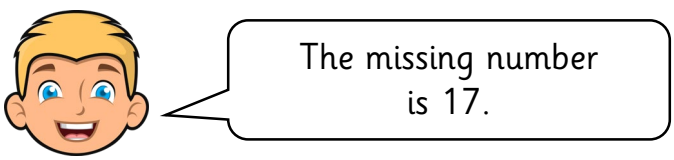
Circle the incorrect calculations.

6 – 7 = 13 7 + 6 = 13

6 + 7 = 13 7 – 13 = 6

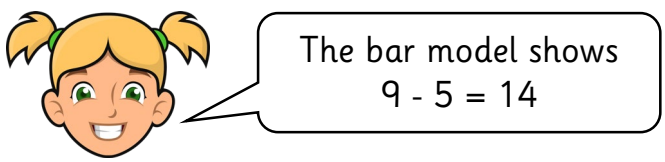
13 + 7 = 6 13 – 7 = 6

Represent the **correct** calculations on a bar model and part-whole diagram.



13	
?	4

Is Jack correct?
If not, what mistake might Jack have made and what is the correct answer?



14	
9	5

True or false? Explain your answer.
What other related facts can you find?

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Challenge Cards – Related facts

Reasoning and problem solving cards:

Use the numbers to create a bar model.

List the related facts:

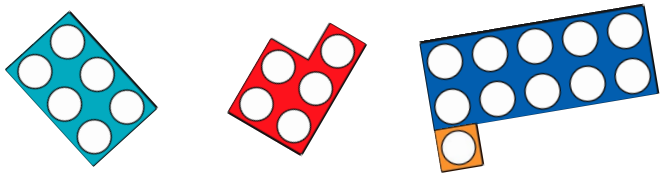
8 + 3 = 11

3 + 8 = 11

11 - 8 = 3

11 - 3 = 8

Use the number frames to make a bar model.



List the related facts:

6 + 5 = 11

5 + 6 = 11

11 - 6 = 5

11 - 5 = 6

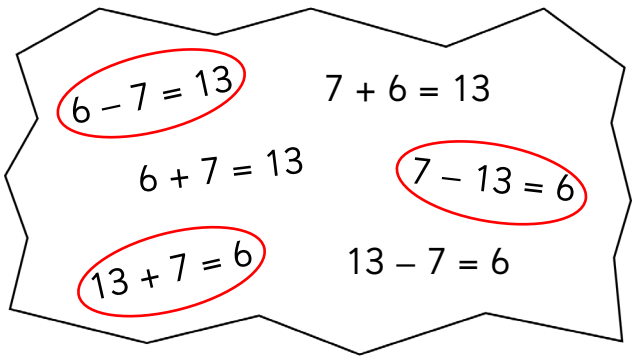
Colour the incorrect calculations.

8 + 9 = 17	8 – 9 = 17	9 + 8 = 17
9 – 8 = 17	17 - 9 = 8	17 + 8 = 9

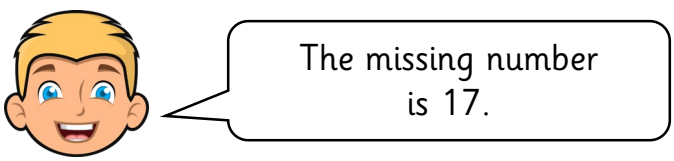
Now, draw a bar model to represent the **correct** calculations.

17	
9 or 8	8 or 9

Circle the incorrect calculations.



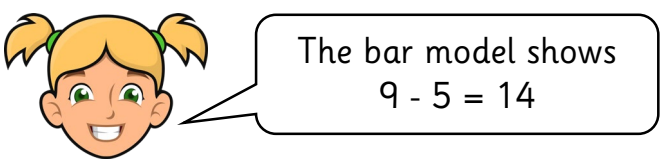
Represent the **correct** calculations on a bar model and part-whole diagram.



13	
?	4

Is Jack correct?
If not, what mistake might Jack have made and what is the correct answer?

No. Jack may have added the 13 and 4 to give him 17. The answer is 9.



14	
9	5

False, it shows 9 + 5 = 14.
Related facts: 5 + 9 = 14, 14 – 9 = 5, 14 – 5 = 9.

True or false? Explain your answer.
What other related facts can you find?

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