Related facts – Bar models

1 Use the bar models to help you complete the related facts.

18	
10	?

10 + _____ = _____

_____ + 10 = _____

_____ - 10 = _____

_____ - _____ = 10

15	
?	8

_____ + _____ = 15

_____ + _____ = 15

15 - _____ = _____

15 - _____ = _____

?	
5	7

_____ + 7 = _____

7 + _____ = _____

_____ - _____ = 7

_____ - 7 = _____

16	
7	?

_____ + _____ = _____

_____ + _____ = _____

_____ - _____ = _____

_____ - _____ = _____

17	
?	9

_____ + _____ = _____

_____ + _____ = _____

_____ - _____ = _____

_____ - _____ = _____

?	
8	5

_____ + _____ = _____

_____ + _____ = _____

_____ - _____ = _____

_____ - _____ = _____

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.

The missing number is 17.

13	
?	4

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

The bar model shows 9 - 5 = 14

14	
9	5

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