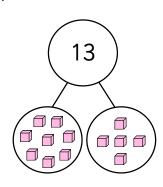
Challenge cards

Reason and problem solving cards:

Spot the mistakes.



$$5 + 8 = 13$$

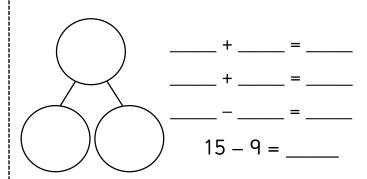
$$6 + 7 = 13$$

$$13 - 5 = 8$$

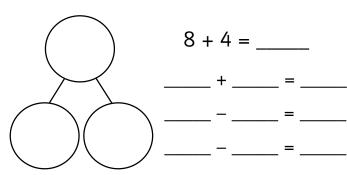
$$13 - 6 = 7$$

Explain your answer.

Complete the part-whole diagram and stem sentences.



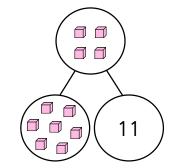
Complete the part-whole diagram and stem sentences.



Repeat for 12 — 7. Can you create your own?



What mistake has been made in the part-whole model?



$$7 + 4 = 11$$

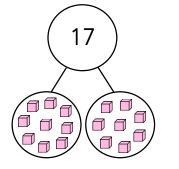
$$4 + 7 = 11$$

$$11 - 4 = 7$$

$$11 - 7 = 4$$



Do my stem sentences represent my part-whole diagram?



$$9 + 8 = 17$$

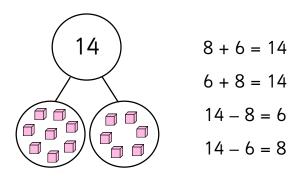
$$8 + 9 = 17$$

$$8 - 9 = 17$$

$$9 - 8 = 17$$

If not, what mistakes have been made?

The part-whole diagram and stem sentences match.

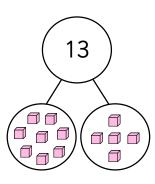


True or false? Explain your answer.

Challenge cards

Reason and problem solving cards:

Spot the mistakes.



$$5 + 8 = 13$$

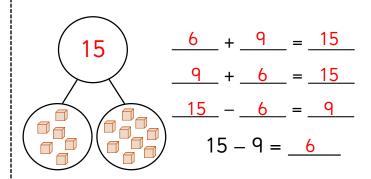
$$6 + 7 = 13$$

$$13 - 5 = 8$$

$$13 - 6 = 7$$

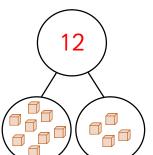
The part-whole diagram represents 8 + 5 = 13. 7 and 6 are not part of the related facts.

Complete the part-whole diagram and stem sentences.



Explain your answer.

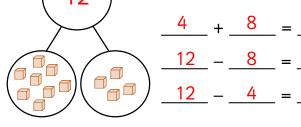
Complete the part-whole diagram and stem sentences.



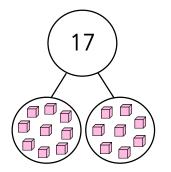
$$8 + 4 = 12$$

$$12 - 8 = 4$$

Repeat for 12 - 7. Can you create your own?



Do my stem sentences represent my part-whole diagram? No



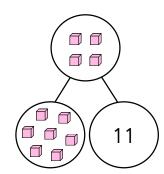
$$8 + 9 = 17$$

$$8 - 9 = 17$$

$$9 - 8 = 17$$

If not, what mistakes have been made?

What mistake has been made in the part-whole model?



$$7 + 4 = 11$$

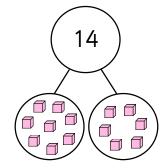
$$4 + 7 = 11$$

$$11 - 4 = 7$$

$$11 - 7 = 4$$

The blocks are in the wrong parts. The answer 11 should be in the whole part and the blocks in the bottom two parts.

The part-whole diagram and stem sentences match.



$$6 + 8 = 14$$

$$14 - 8 = 6$$

$$14 - 6 = 8$$

True or false?

True. There are the correct number of blocks in each Explain your answer. part. 8 and 6 make 14.