LEARN DOUBLES TO 20

Use these cards to explore doubles from 12 to 20.

Sort & Say

Make single-sided laminated cards.

Mix them up and lay them face up on a table.

Match each blue card with the black card that has the correct number bonds.

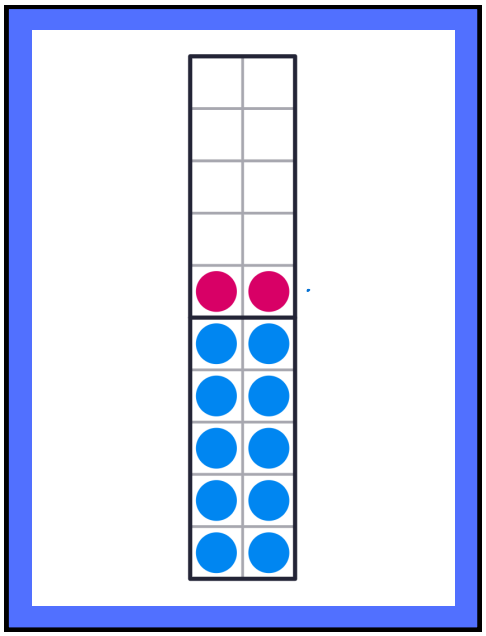
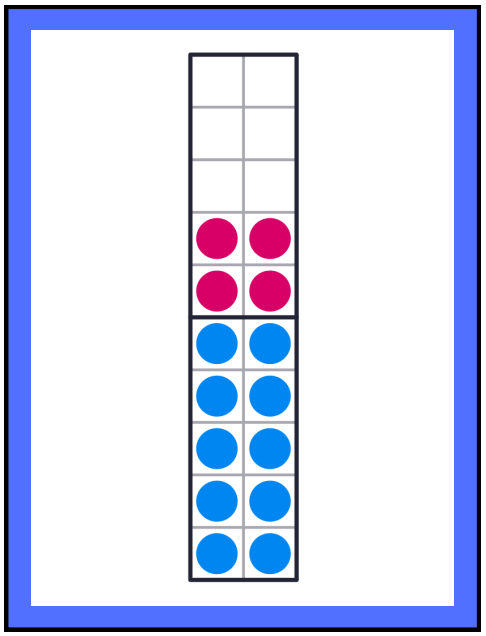
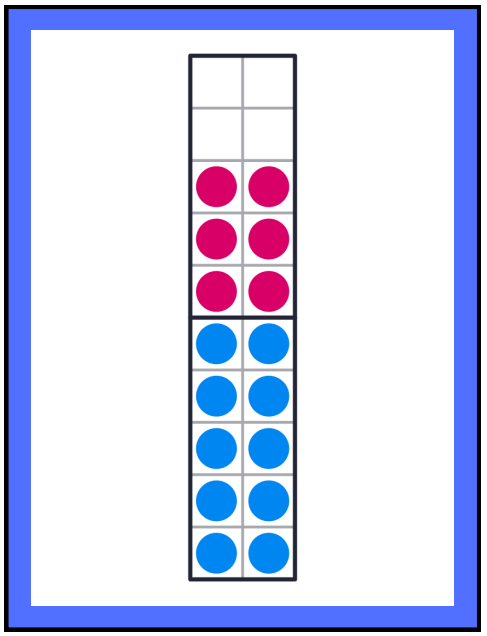
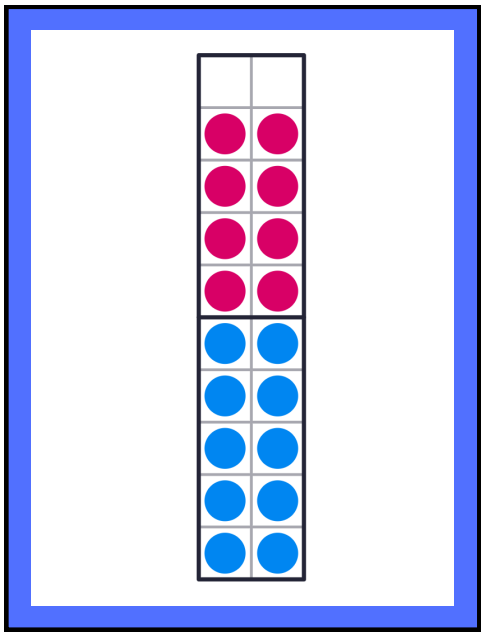
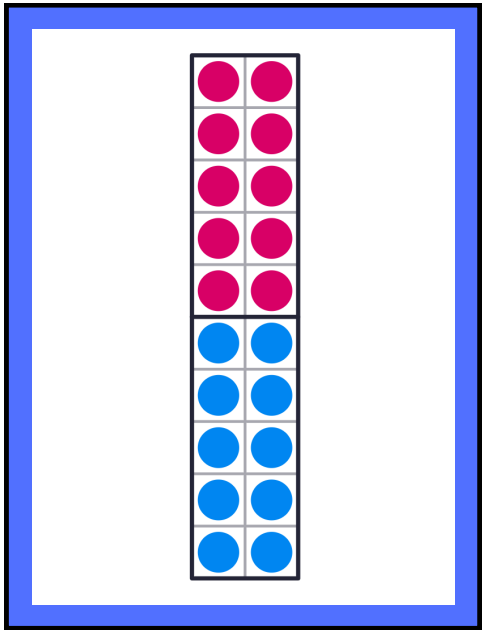
After making each match, read the number facts out loud.

Flip & Say

Make double-sided laminated cards.

Look at the blue side and say what number bonds are on the back.

Repeat, starting with the black side and draw or describe the number frame on the blue side.

9 + 9 = 18
18 - 9 = 9

8 + 8 = 16
16 - 8 = 8

7 + 7 = 14
14 - 7 = 7

6 + 6 = 12
12 - 6 = 6

10 + 10 = 20
20 - 10 = 10

BRIDGING FORWARD THROUGH 10

Use these cards to explore bridging forward through 10 as an addition strategy.

Sort & Say

Make single-sided laminated cards.

Mix them up and lay them face up on a table.

Match each addition on the black side with the correct bridging through 10 strategy on the blue side.

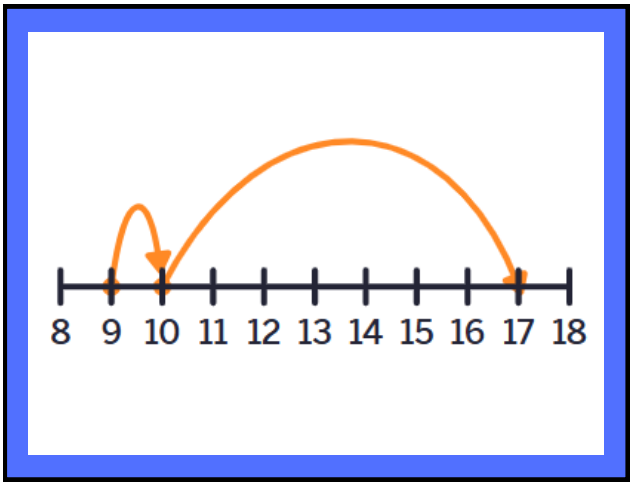
Explain your thinking.

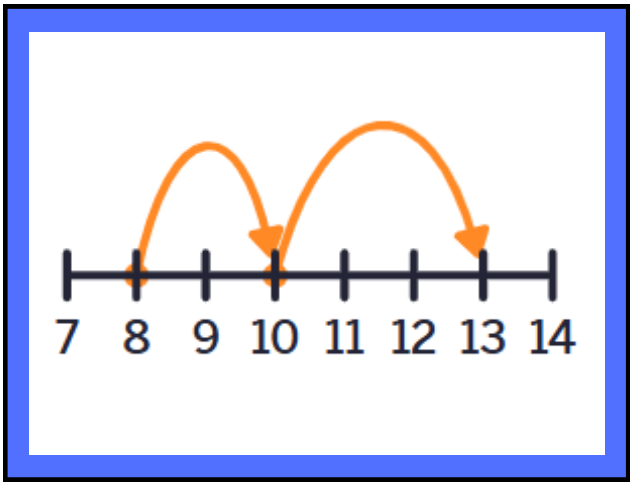
Flip & Say

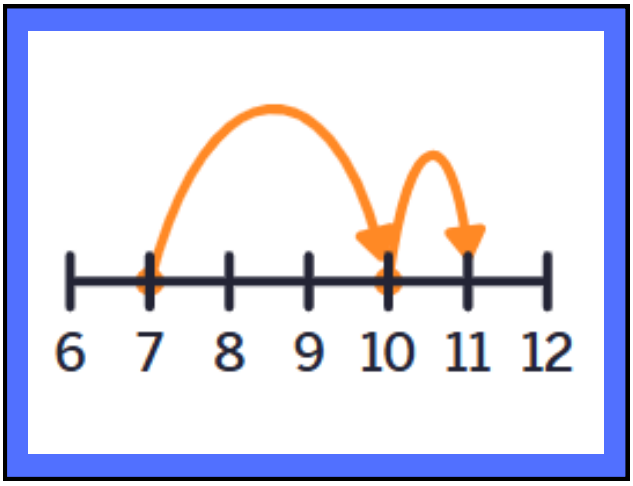
Make double-sided laminated cards and put them in a pile.

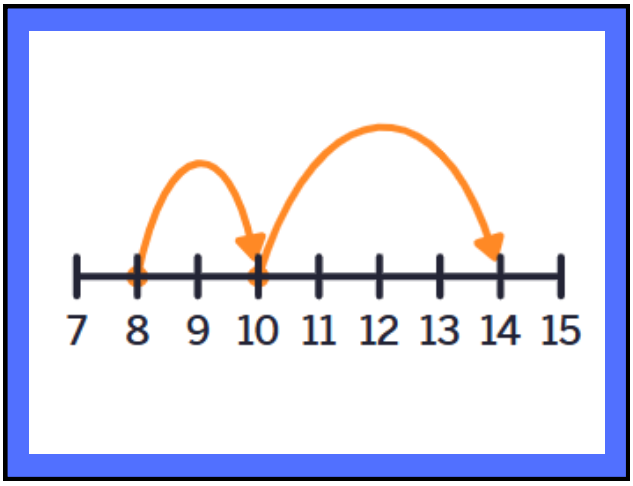
Look at the black side and answer the addition fact using bridging through 10. Always start from the larger number.

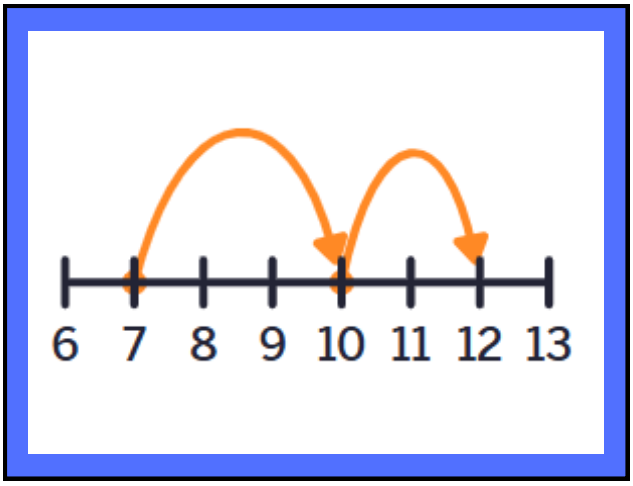
If you get the calculation correct, remove the card from the pile. If you don't, keep it in the pile and keep practising until you do. Draw or describe the number line to help.

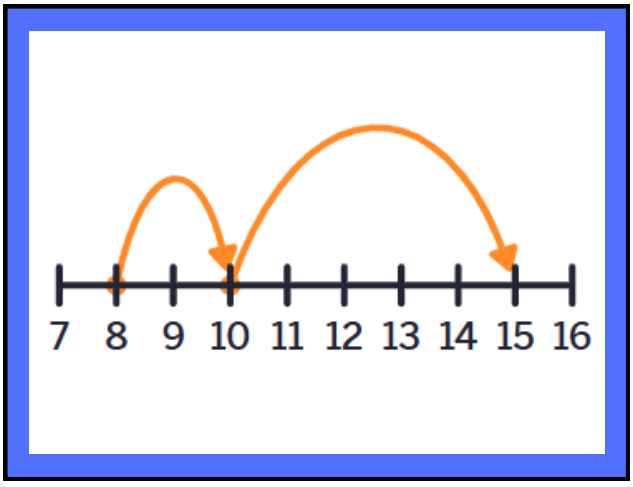


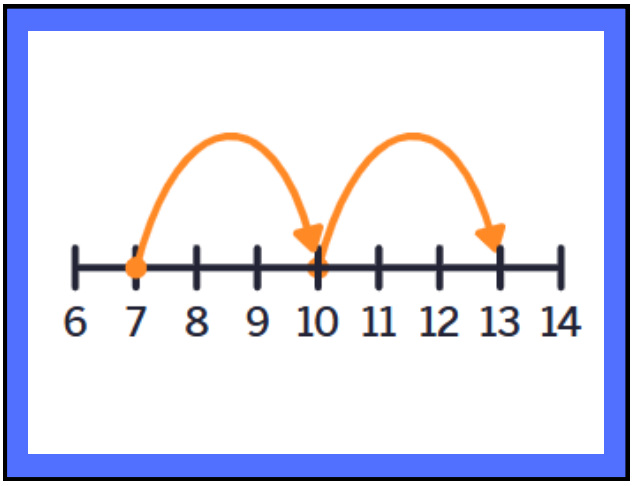


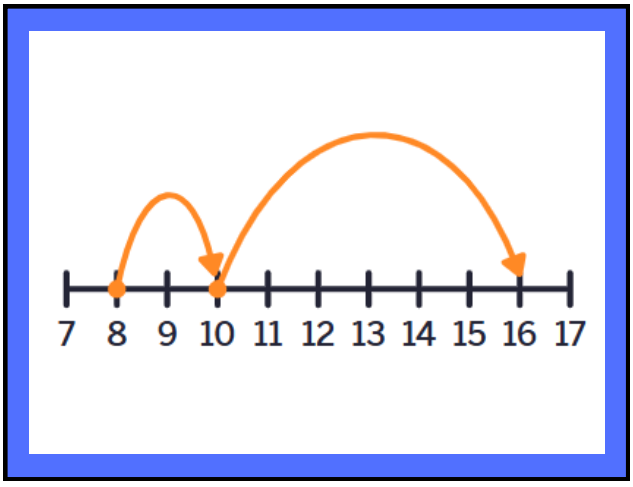




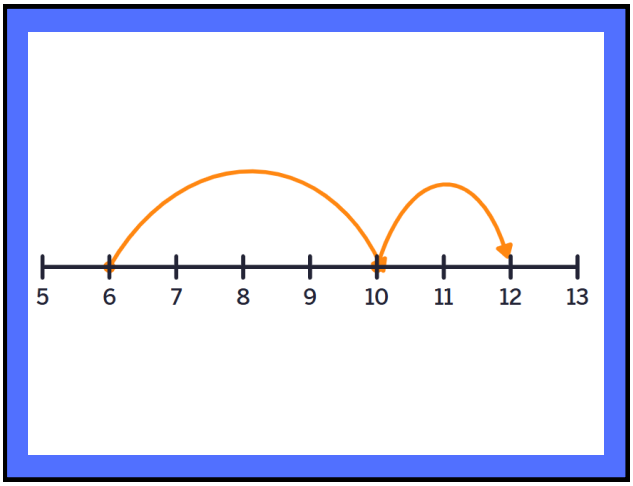


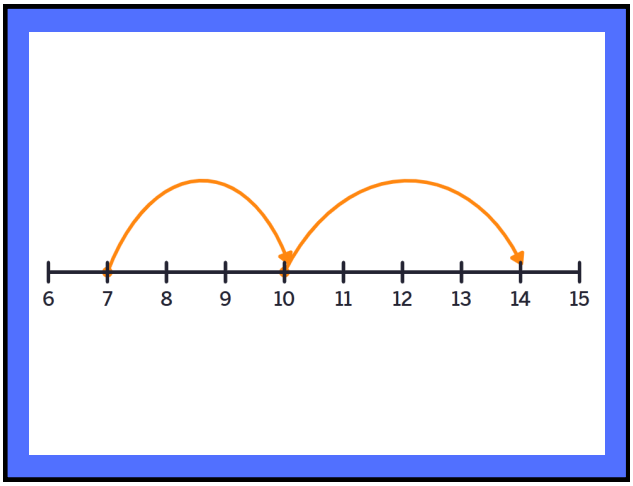


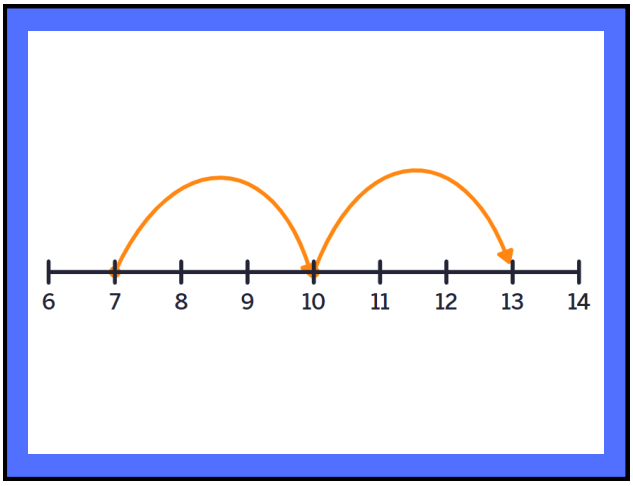


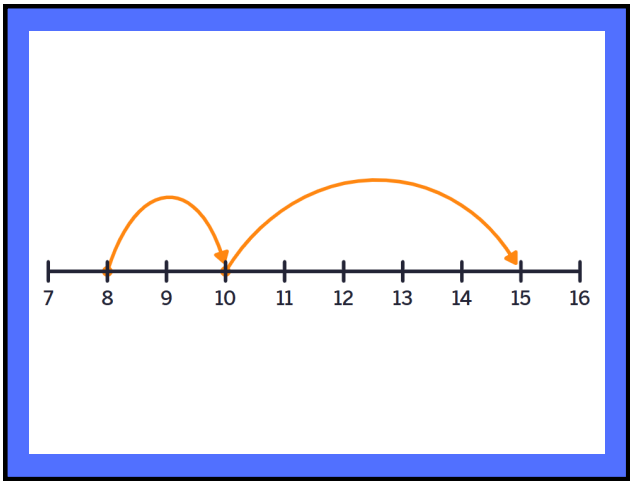


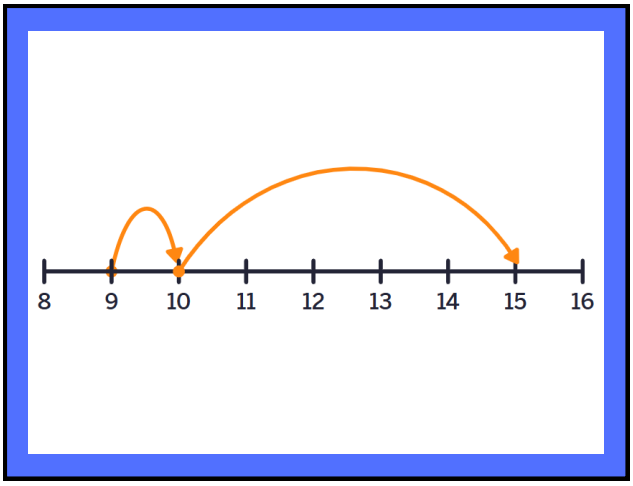
8 + 8 = 16	8 + 7 = 15 7 + 8 = 15	8 + 6 = 14 6 + 8 = 14	8 + 5 = 13 5 + 8 = 13
7 + 6 = 13 6 + 7 = 13	7 + 5 = 12 5 + 7 = 12	7 + 4 = 11 4 + 7 = 11	8 + 9 = 17 9 + 8 = 17

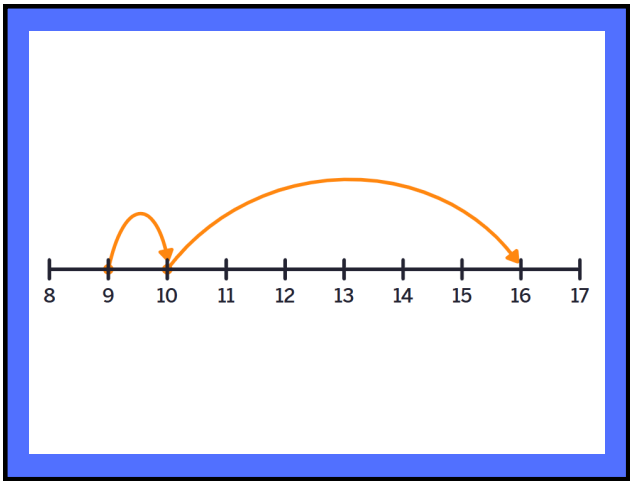


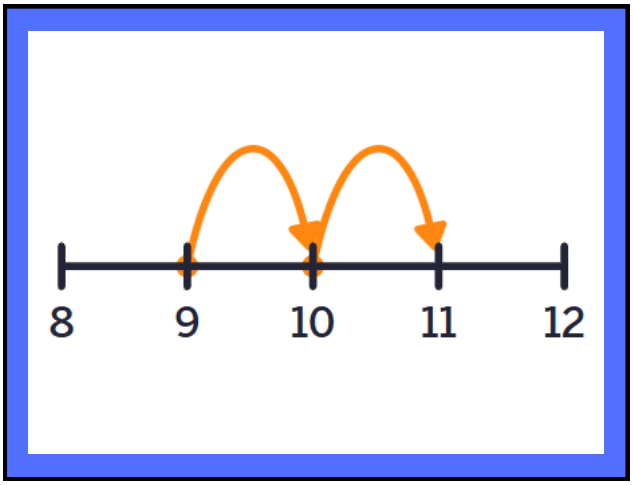


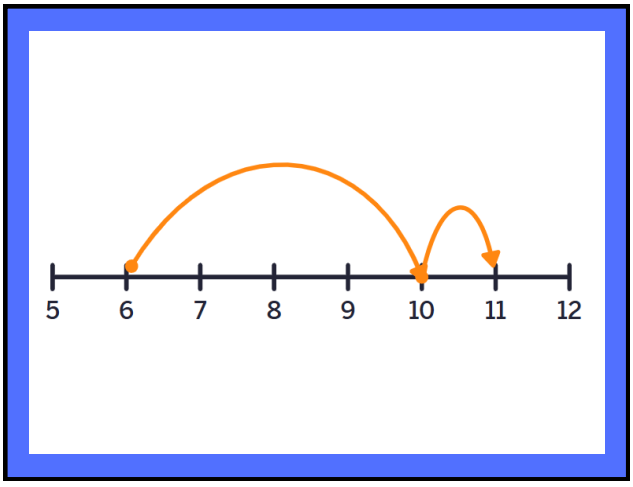




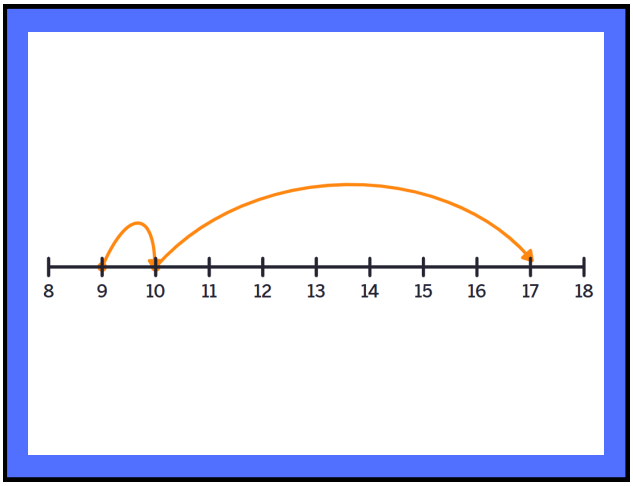


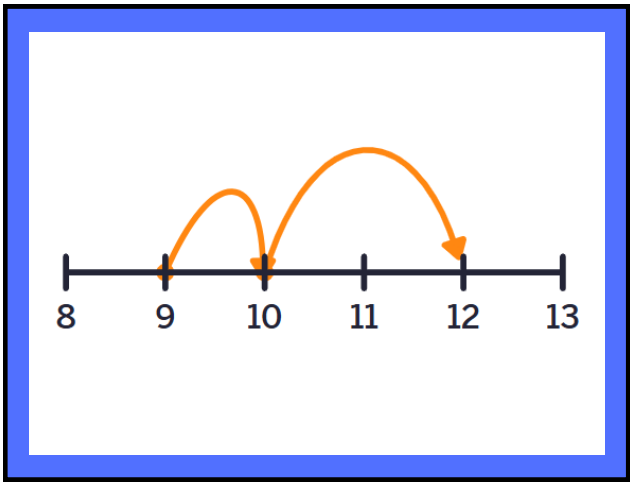


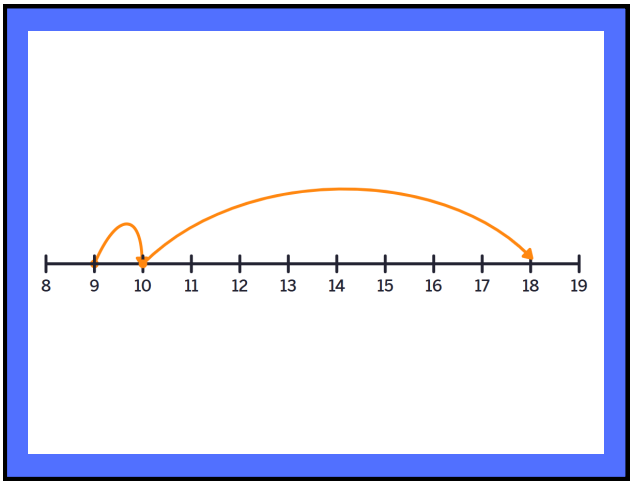


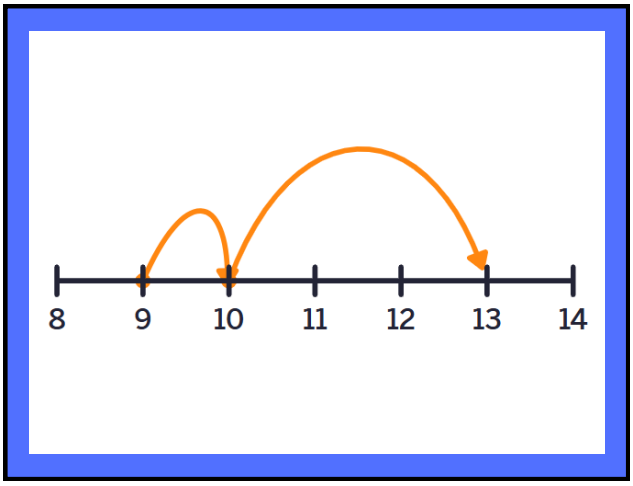


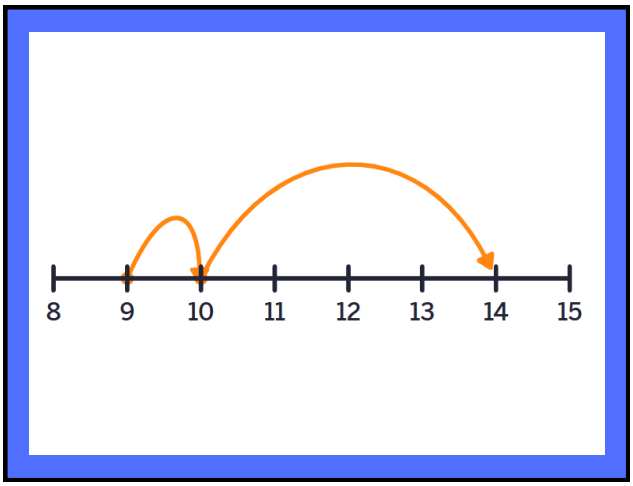
6 + 5 = 11 5 + 6 = 11	7 + 9 = 16 9 + 7 = 16	7 + 8 = 15 8 + 7 = 15	7 + 7 = 14
9 + 2 = 11 2 + 9 = 11	6 + 9 = 15 9 + 6 = 15	6 + 7 = 13 7 + 6 = 13	6 + 6 = 12

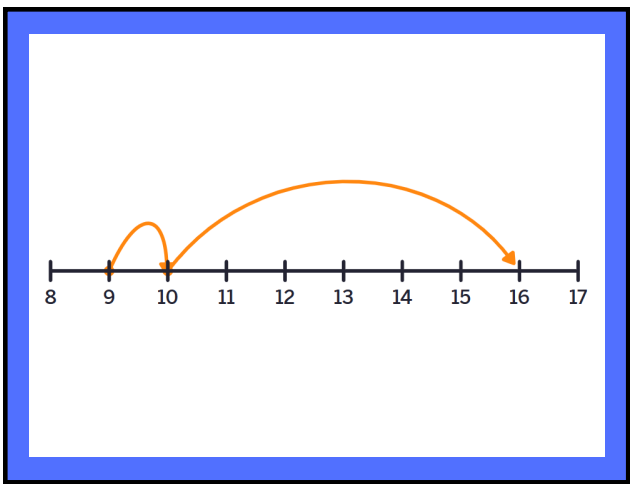


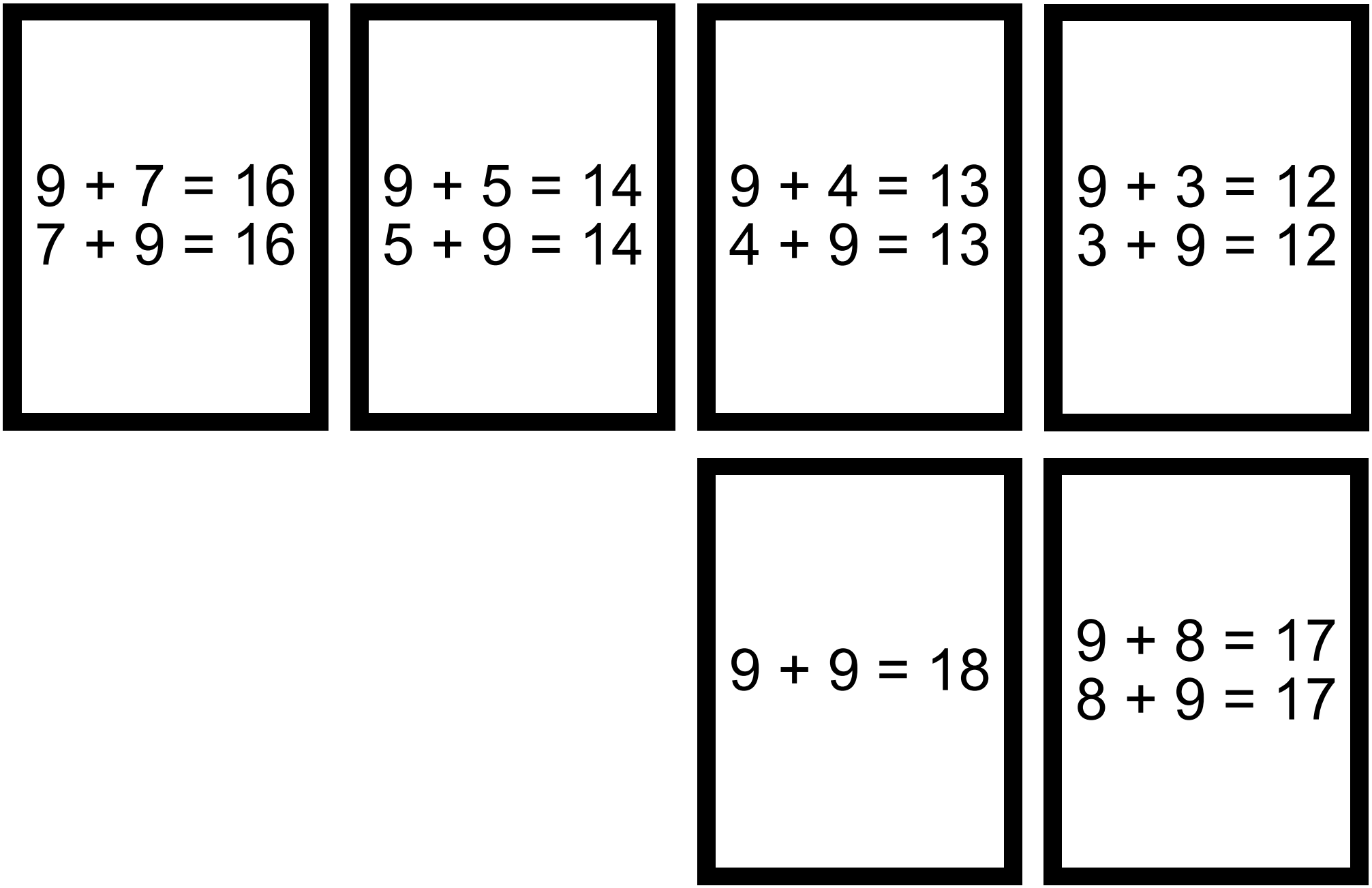











9 + 7 = 16
7 + 9 = 16
9 + 5 = 14
5 + 9 = 14
9 + 4 = 13
4 + 9 = 13
9 + 3 = 12
3 + 9 = 12
9 + 9 = 18
9 + 8 = 17
8 + 9 = 17

DOUBLES + 1 (AGAIN)

Use these cards to explore how the doubles + 1 strategy can be used to add two consecutive numbers.

Sort & Say

Make single-sided laminated cards.

Mix them up and lay them face up on a table.

Match each number frame on the blue side with the correct addition fact on the black side.

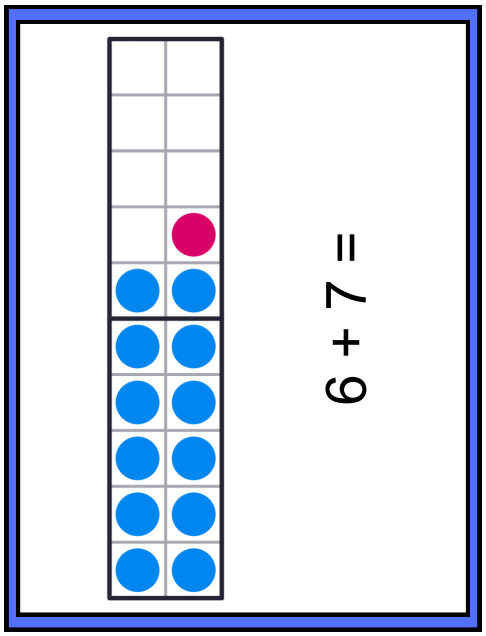
After making each match, read the number facts out loud.

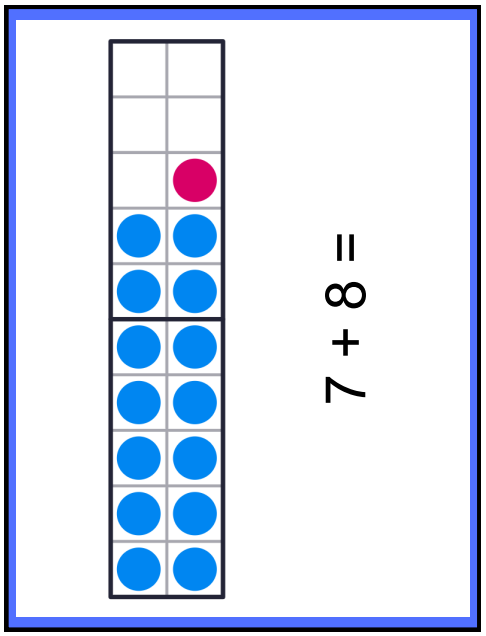
Flip & Say

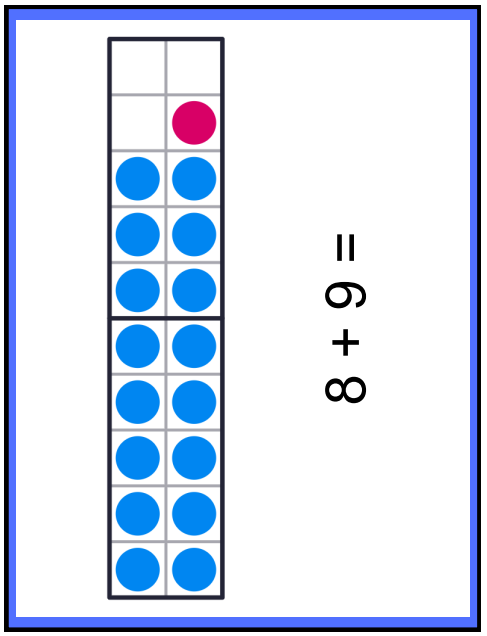
Make double-sided laminated cards and put them in a pile.

Look at the blue side and answer the addition fact using doubles + 1. Draw or describe the number frame to help.

If you get the calculation correct, remove the card from the pile. If you don't, look at the black side to check the strategy. Keep the card in the pile and keep practising.







$$6 + 7 =$$
$$(6 + 6) + 1 =$$
$$12 + 1 =$$
$$13$$

$$7 + 8 =$$
$$(7 + 7) + 1 =$$
$$14 + 1 =$$
$$15$$

$$8 + 9 =$$
$$(8 + 8) + 1 =$$
$$16 + 1 = 17$$

SUBTRACTION WITHIN 20: APPLYING DOUBLES & NEAR DOUBLES FACTS

Use these cards to explore how you can use doubles and near doubles to subtract.

Sort & Say

Make single-sided laminated cards.

Mix them up and lay them face up on a table.

Match the blocks on the blue side with the correct subtraction fact on the black side.

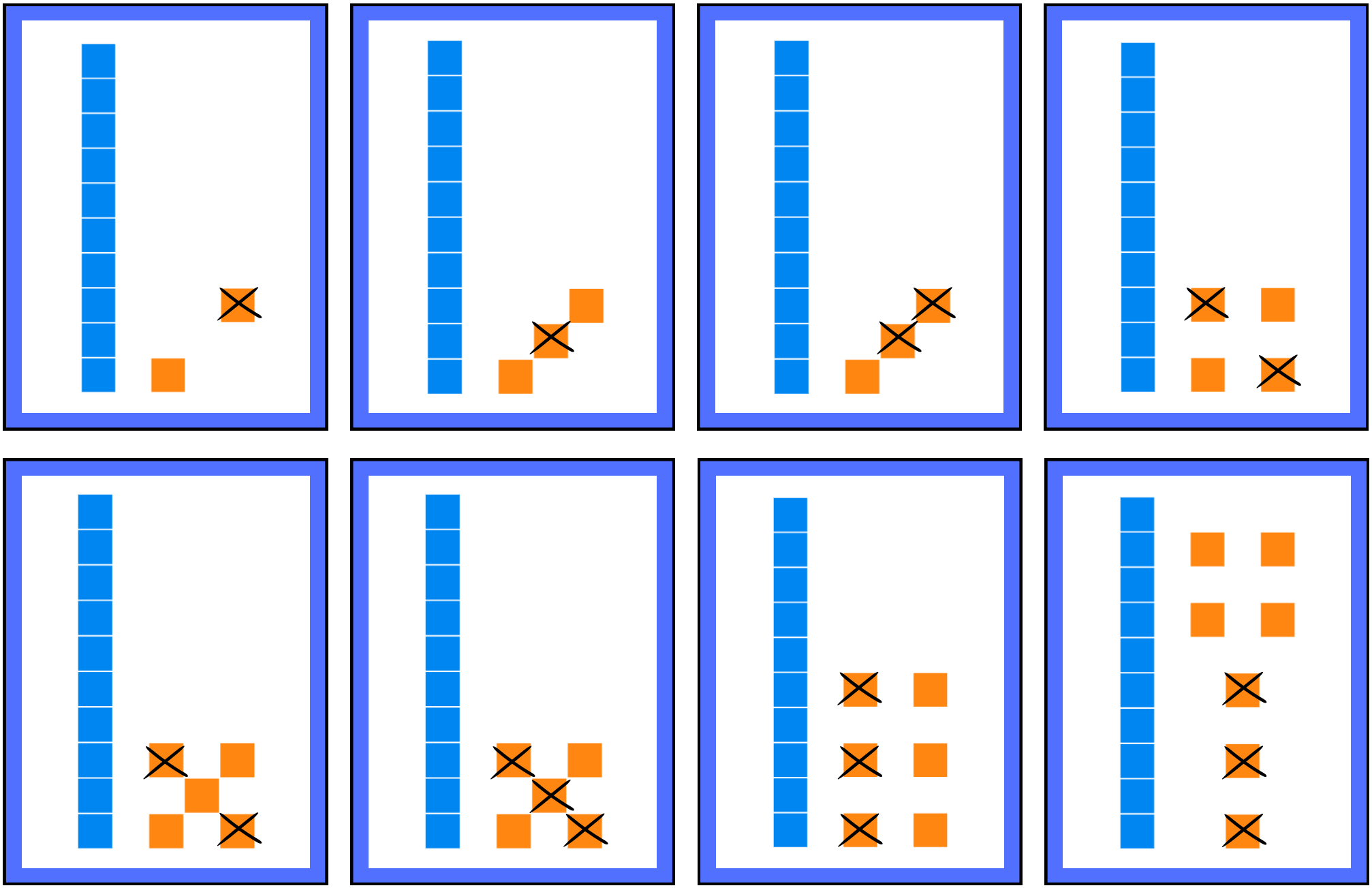
After making each match, read the number facts out loud, explaining which doubles or near doubles fact you are using.

Flip & Say

Make double-sided laminated cards and put them in a pile.

Look at the black side and answer the subtraction fact using your knowledge of doubles and near doubles. Draw or describe the base-10 blocks to help.

If you get the calculation correct, remove the card from the pile. If you don't, look at the blue side to check the strategy. Keep the card in the pile and keep practising.



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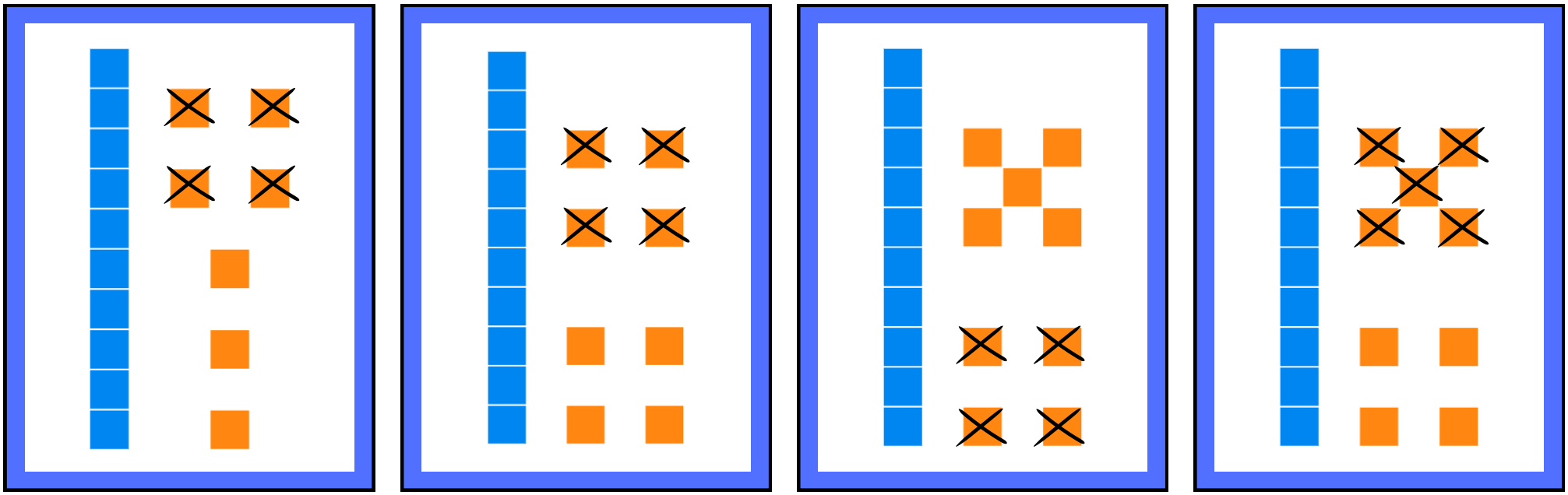
14 - 2 =	13 - 2 =	13 - 1 =	12 - 1 =
17 - 3 =	16 - 3 =	15 - 3 =	15 - 2 =



Images created using free virtual manipulatives by Amplify available at Polypad.com

19 - 5 =	19 - 4 =	18 - 4 =	17 - 4 =

SUBTRACTION WITHIN 20: USING NUMBER BONDS OF 10

Use these cards to explore how you can use number bonds of 10 to subtract.

Sort & Say

Make single-sided laminated cards.

Mix them up and lay them face up on a table.

Match the rods on the blue side with the correct subtraction fact on the black side.

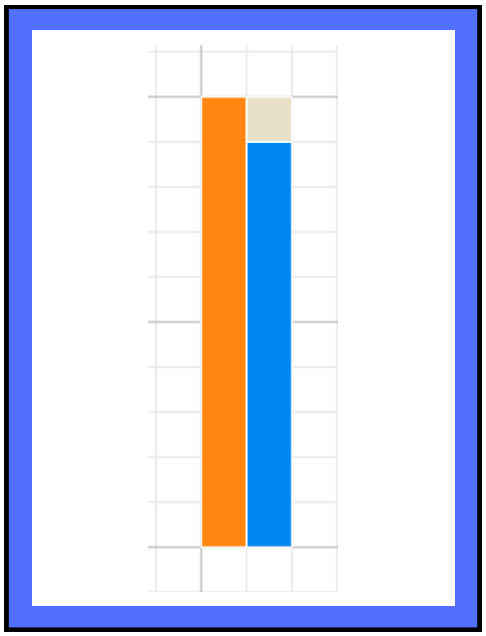
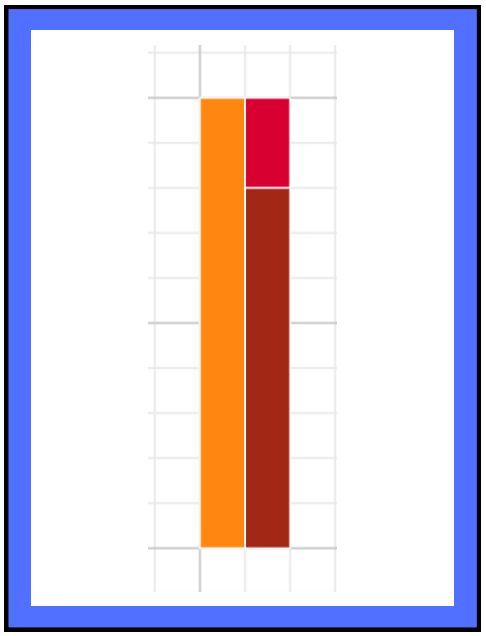
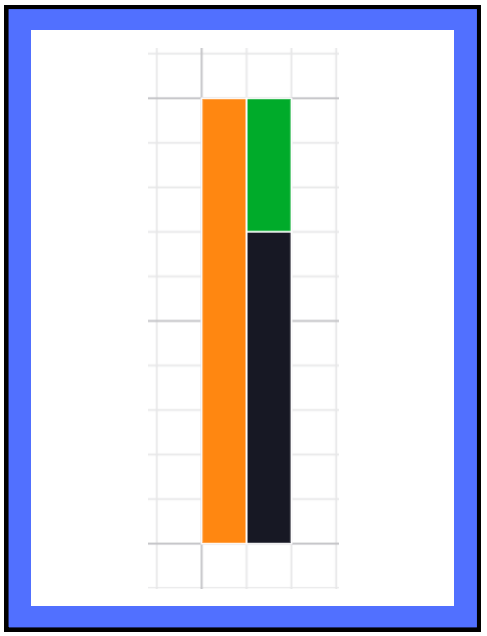
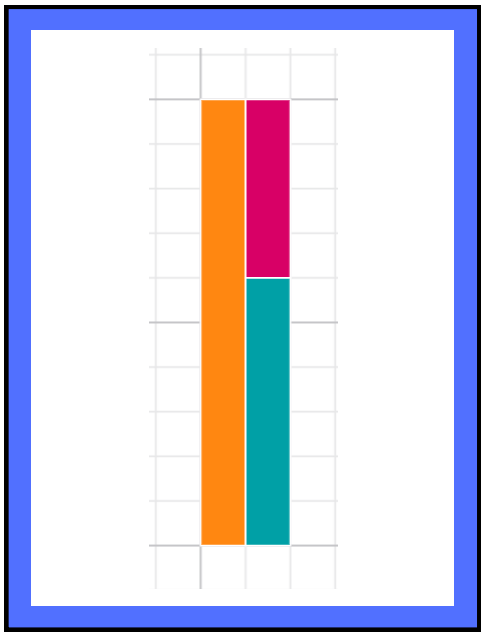
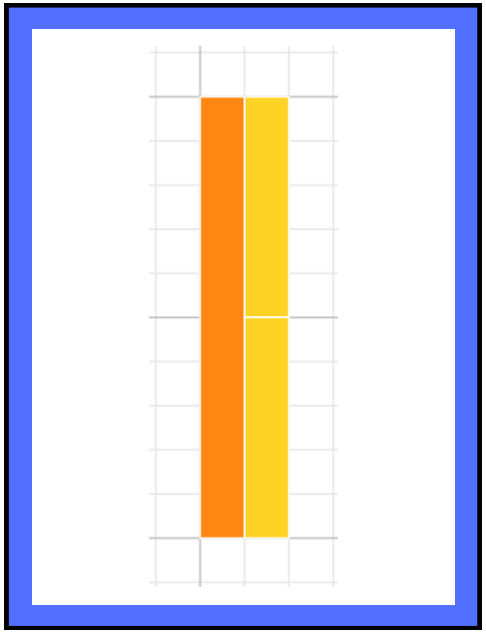
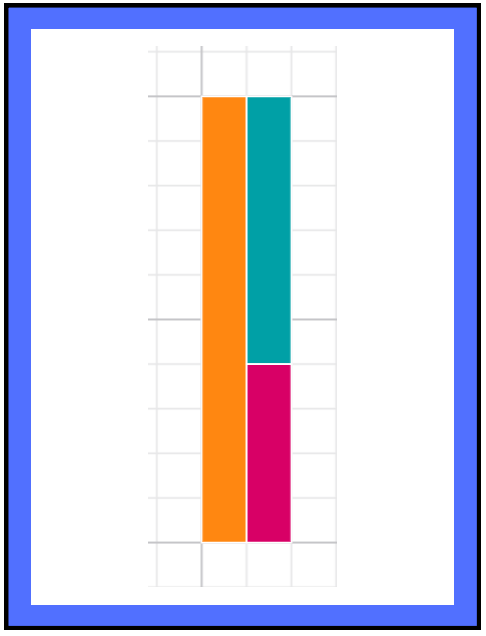
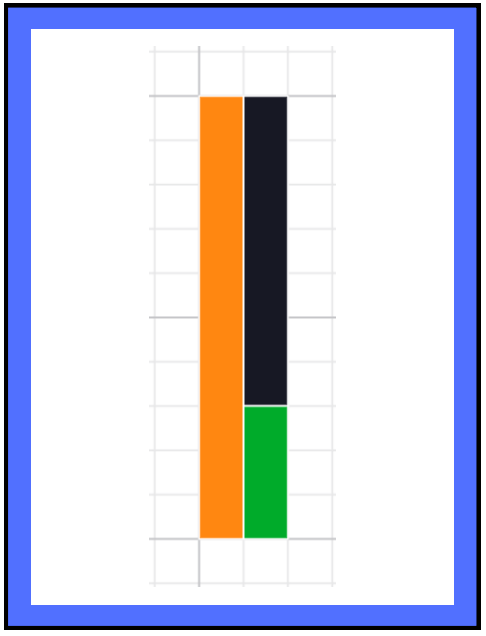
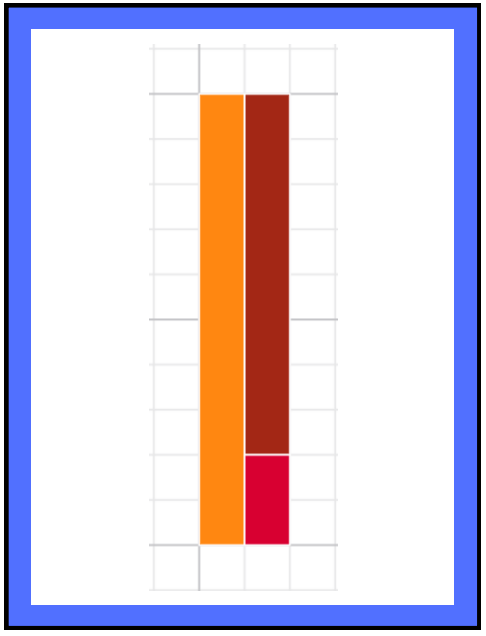
After making each match, read the number facts out loud, explaining which number bond you are using.

Flip & Say

Make double-sided laminated cards and put them in a pile.

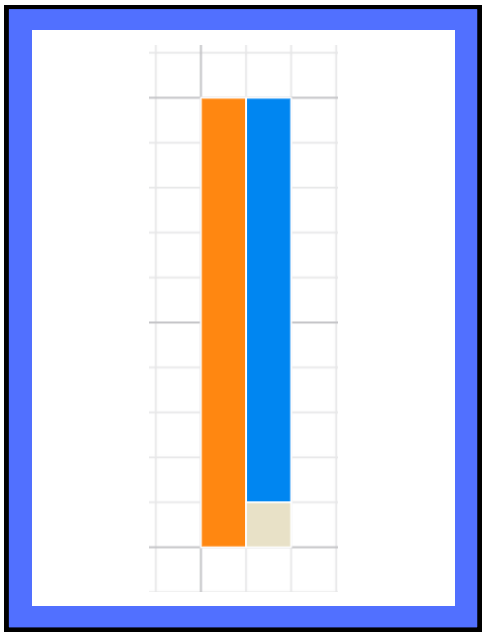
Look at the black side and answer the subtraction fact using your knowledge of number bonds of 10. Draw or describe the rods to help.

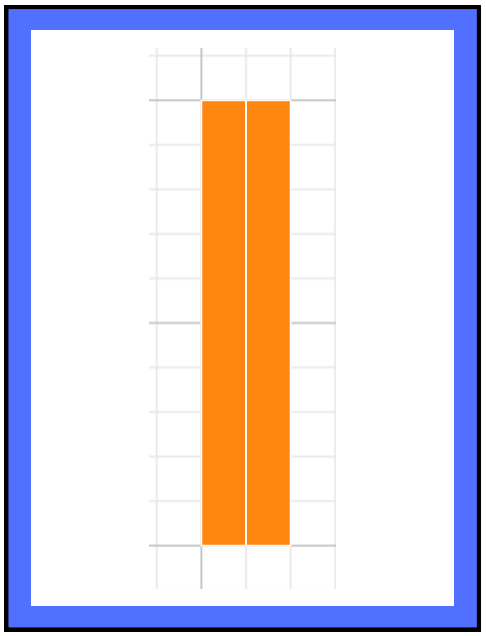
If you get the calculation correct, remove the card from the pile. If you don't, look at the blue side to check the strategy. Keep the card in the pile and keep practising.

Images created using free virtual manipulatives by Amplify available at Polypad.com

20 - 4 =	20 - 3 =	20 - 2 =	20 - 1 =
20 - 8 =	20 - 7 =	20 - 6 =	20 - 5 =





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20 - 10 =	20 - 9 =

BRIDGING BACK THROUGH 10

Use these cards to explore bridging back through 10 as a subtraction strategy.

Sort & Say

Make single-sided laminated cards.

Mix them up and lay them face up on a table.

Match each subtraction on the black side with the correct bridging through 10 strategy on the blue side.

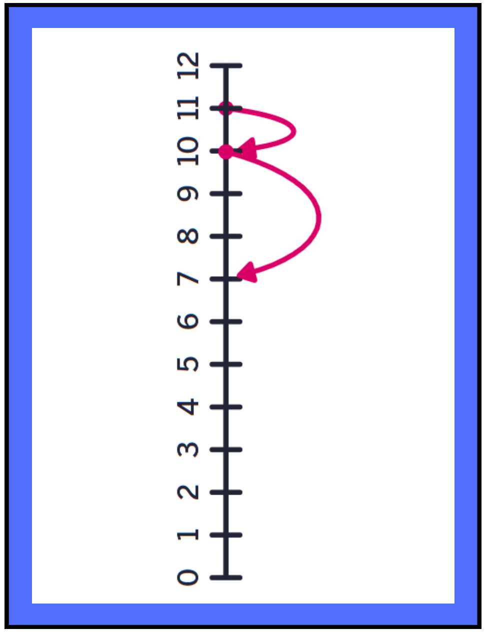
Explain your thinking.

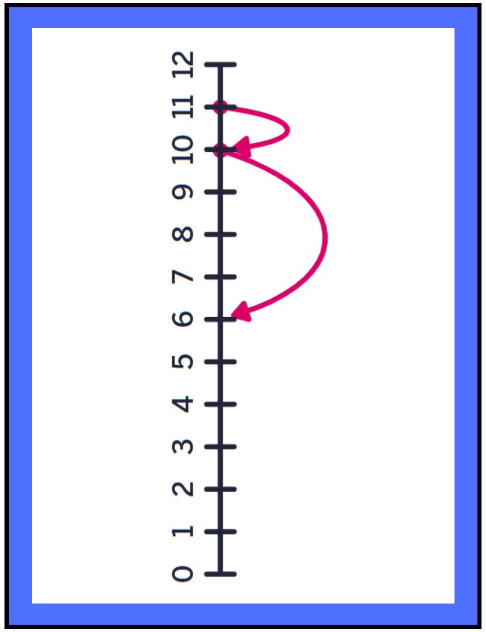
Flip & Say

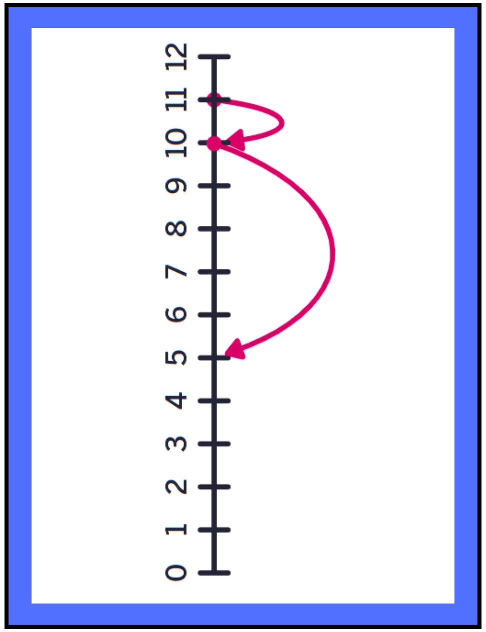
Make double-sided laminated cards and put them in a pile.

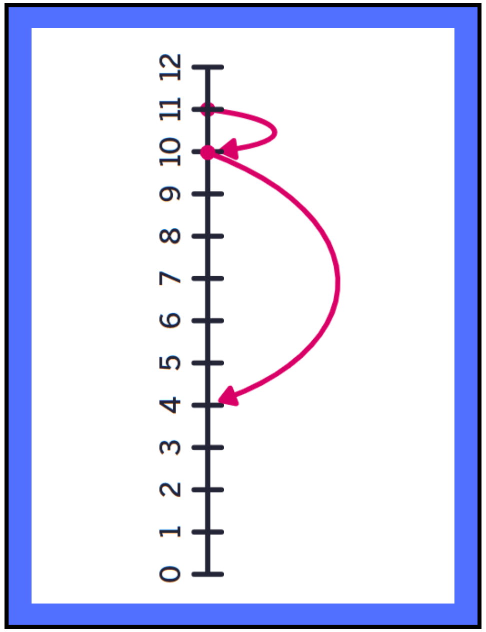
Look at the black side and answer the subtraction calculation using bridging back through 10.

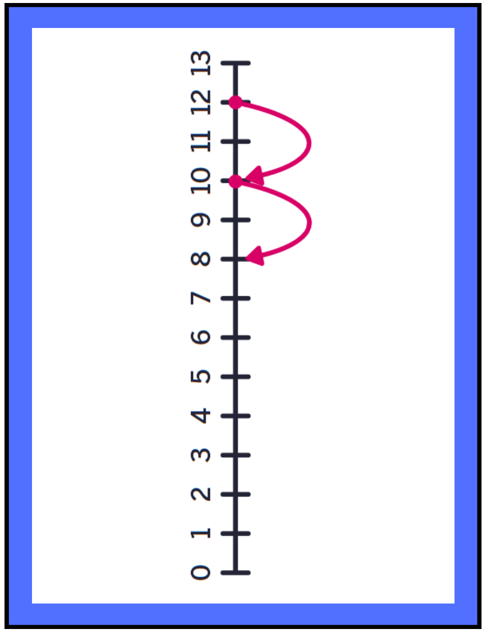
If you get the calculation correct, remove the card from the pile. If you don't, keep it in the pile and keep practising until you do. Draw or describe the number line to help.

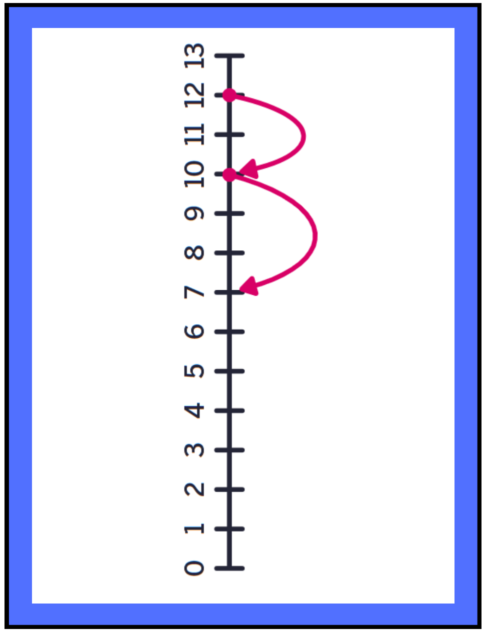


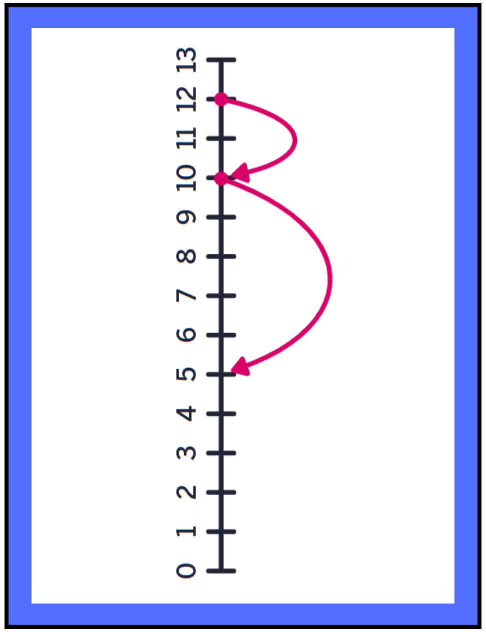


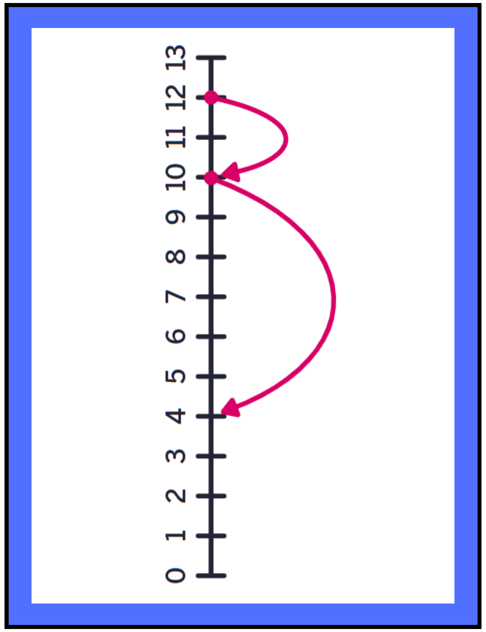






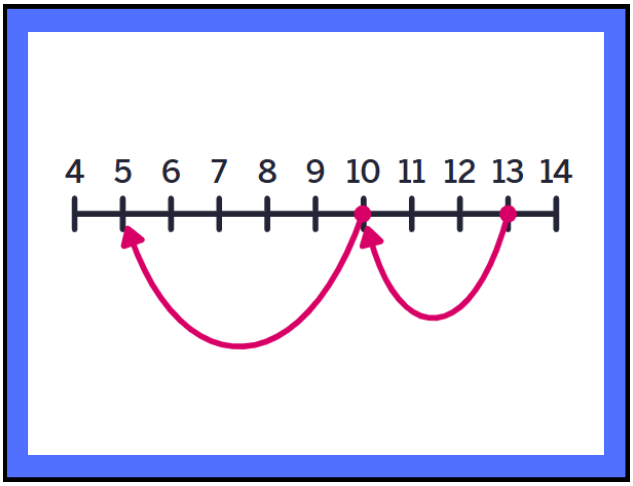


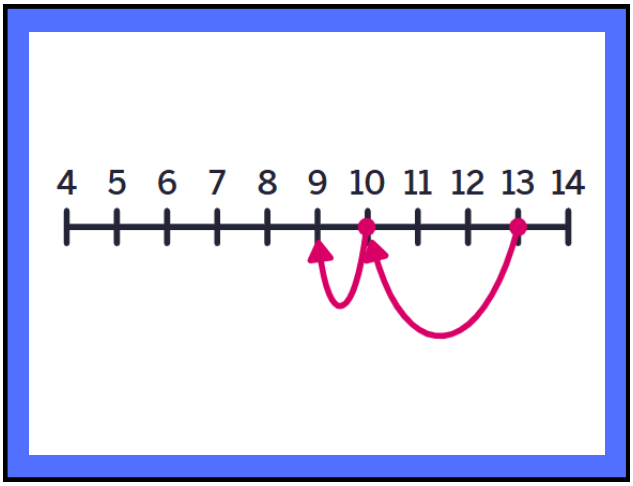


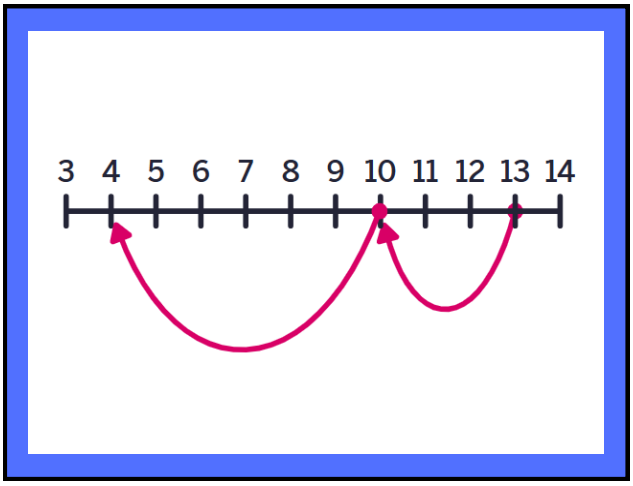


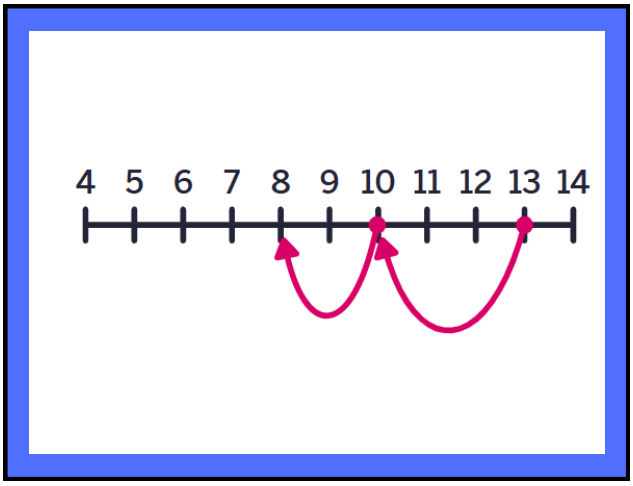
Images created using free virtual manipulatives by Amplify available at Polypad.com

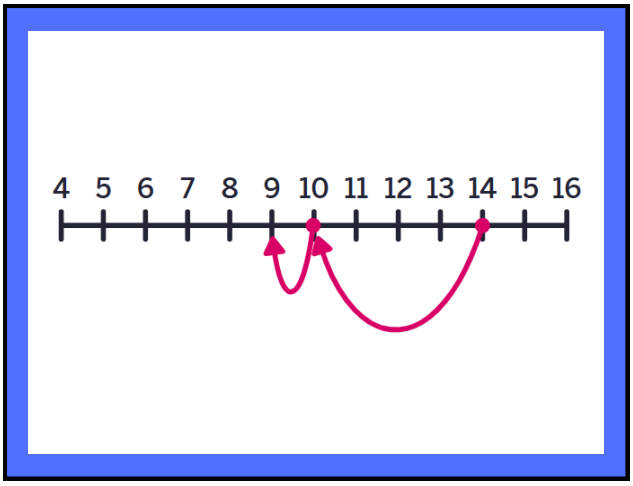
11 - 7 =	11 - 6 =	11 - 5 =	11 - 4 =
12 - 8 =	12 - 7 =	12 - 5 =	12 - 4 =

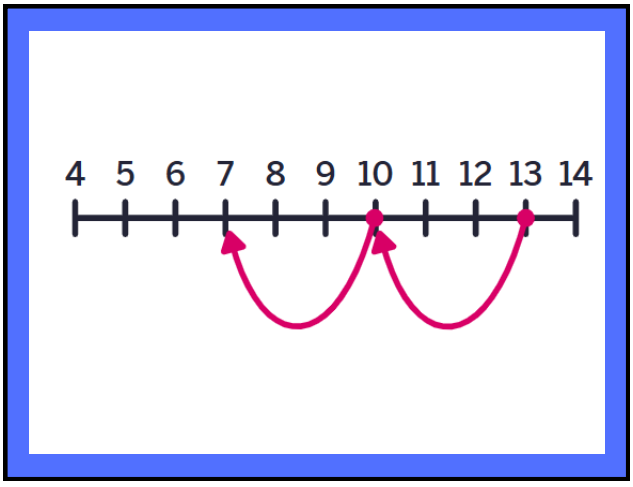


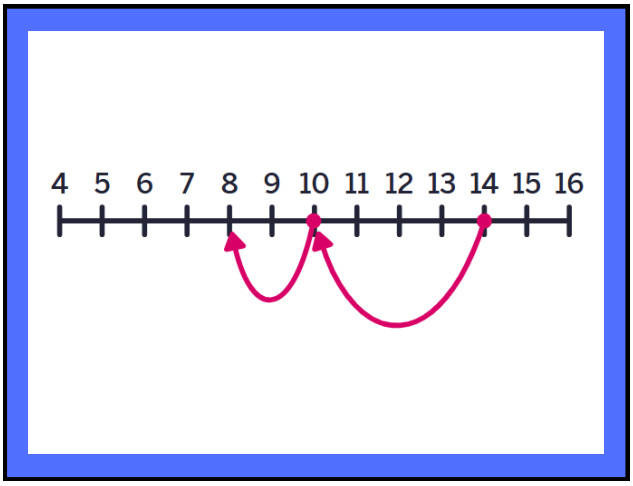


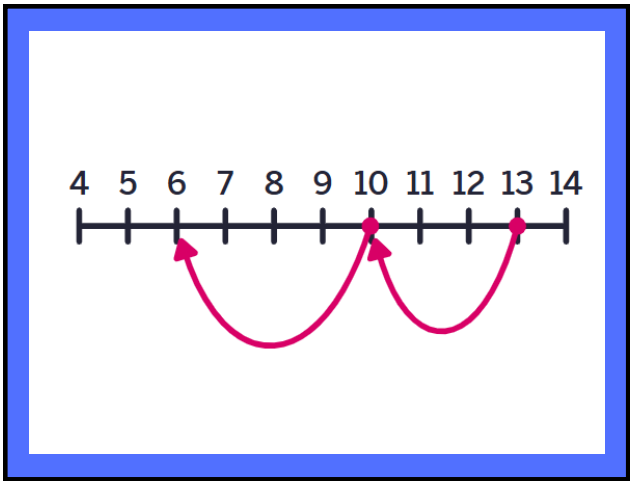




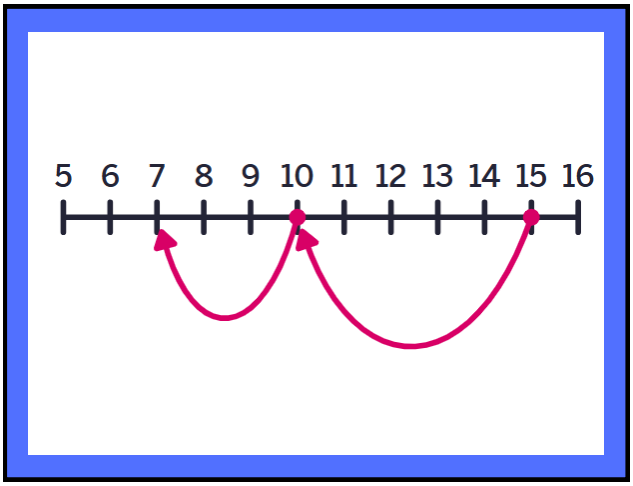


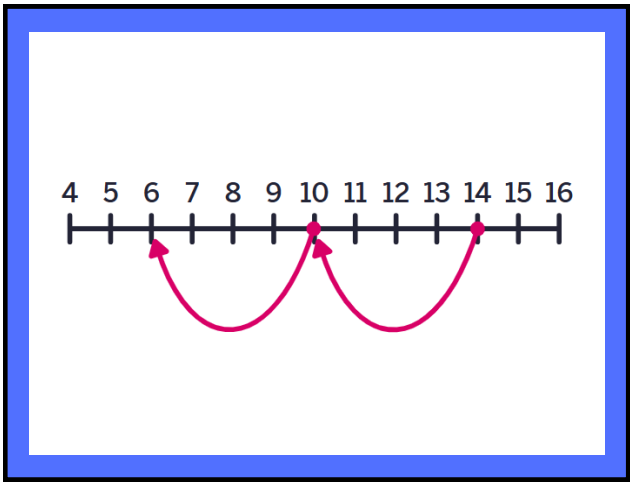


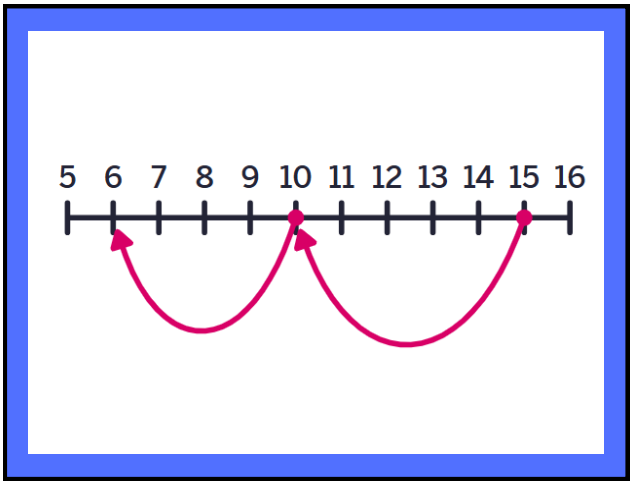


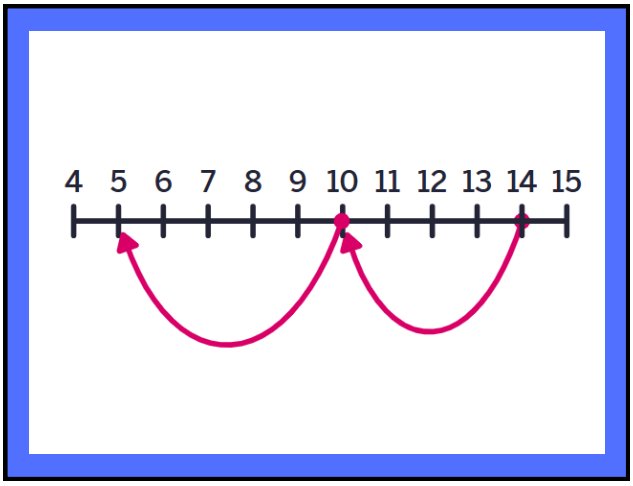


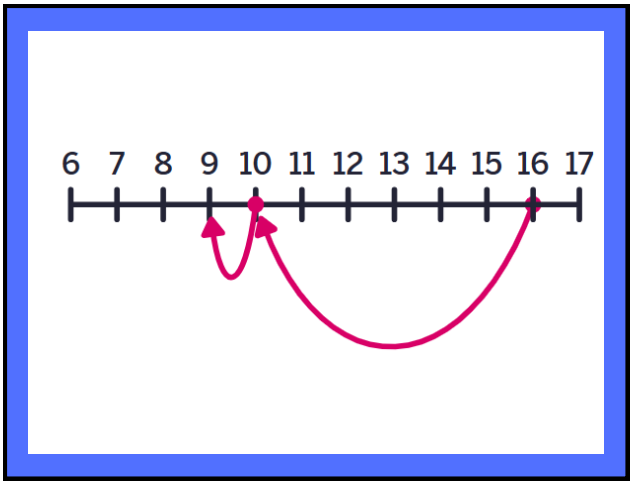
13 - 7 =	13 - 6 =	13 - 5 =	13 - 4 =
14 - 6 =	14 - 5 =	13 - 9 =	13 - 8 =

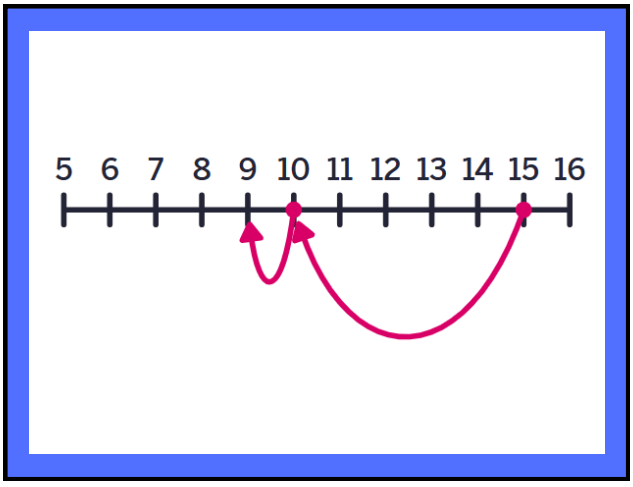


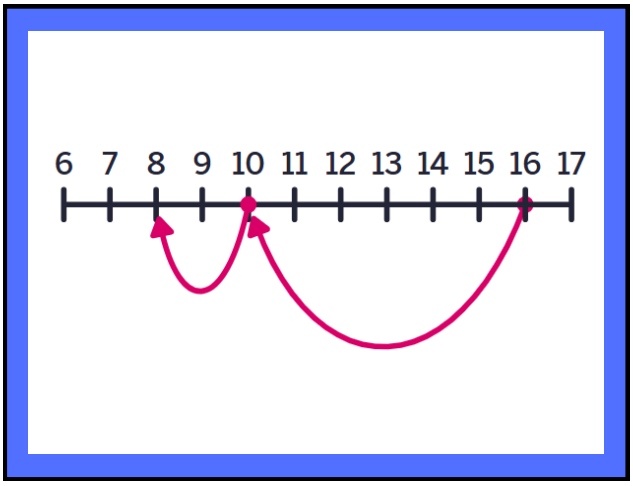


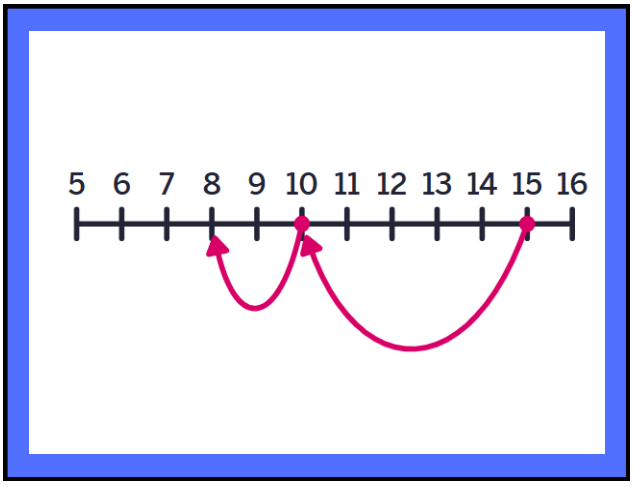




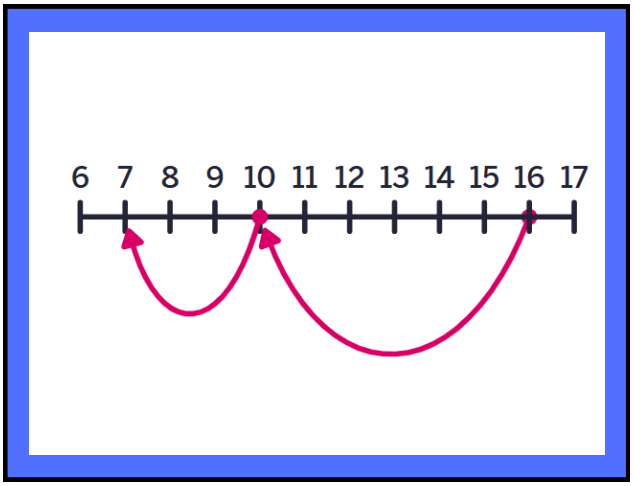


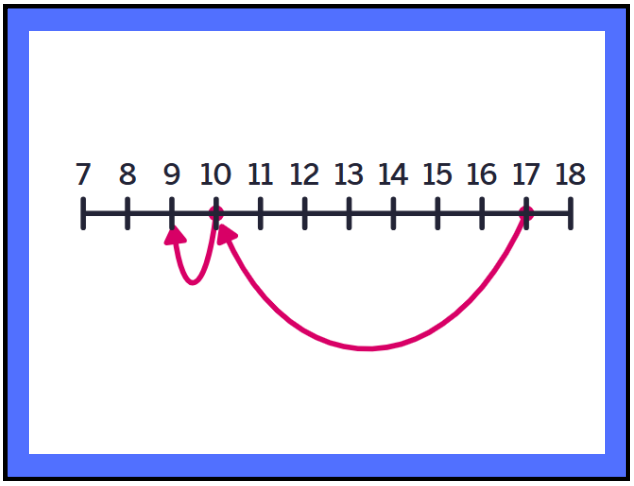


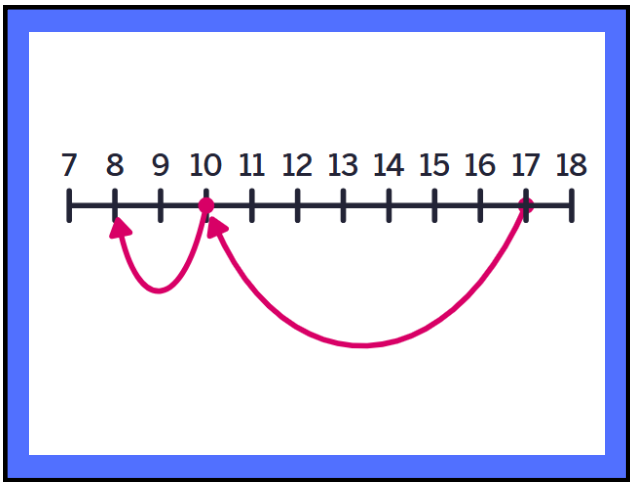


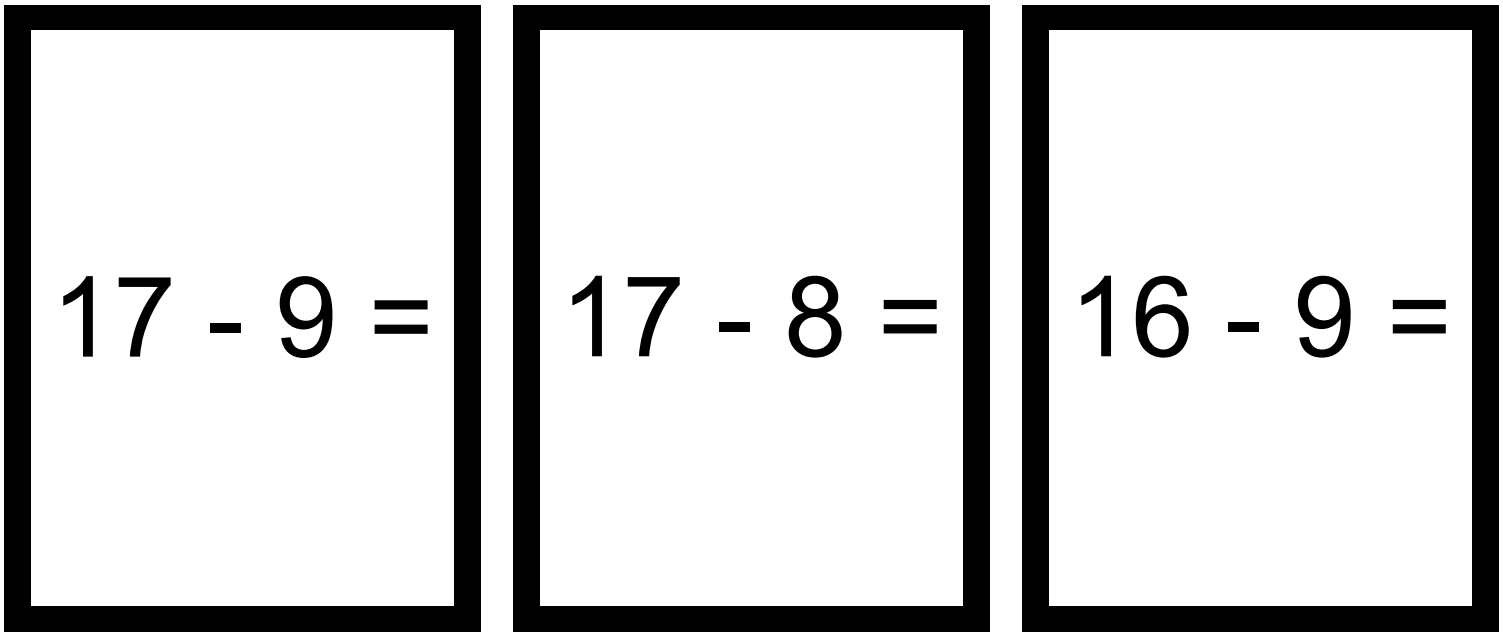


15 - 7 =	15 - 6 =	14 - 9 =	14 - 8 =
16 - 8 =	16 - 7 =	15 - 9 =	15 - 8 =








17 - 9 =
17 - 8 =
16 - 9 =

SHOPKEEPERS' ADDITION

Use these cards to explore using shopkeepers' addition to solve subtraction problems.

Sort & Say

Make single-sided laminated cards.

Mix them up and lay them face up on a table.

Match each subtraction on the black side with the correct shopkeepers' addition on the blue side

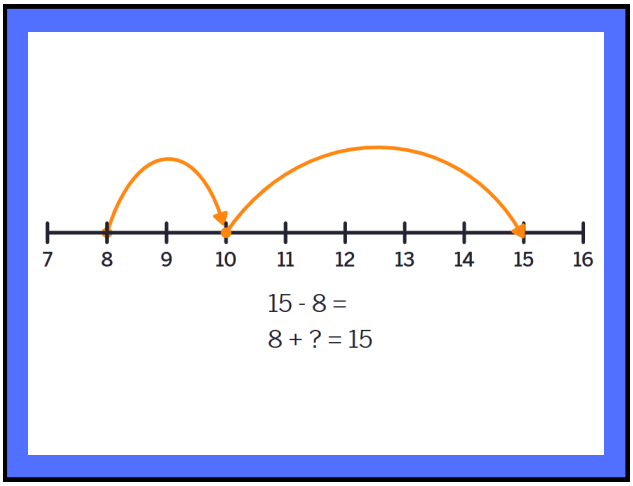
Explain your thinking.

Flip & Say

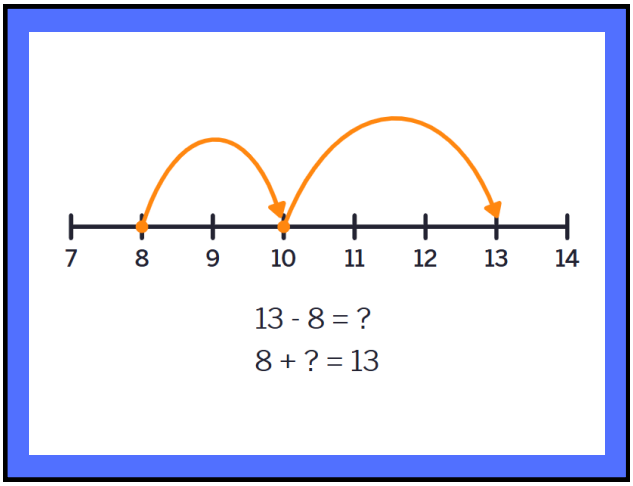
Make double-sided laminated cards and put them in a pile.

Look at the black side and answer the subtraction calculation using shopkeepers' addition

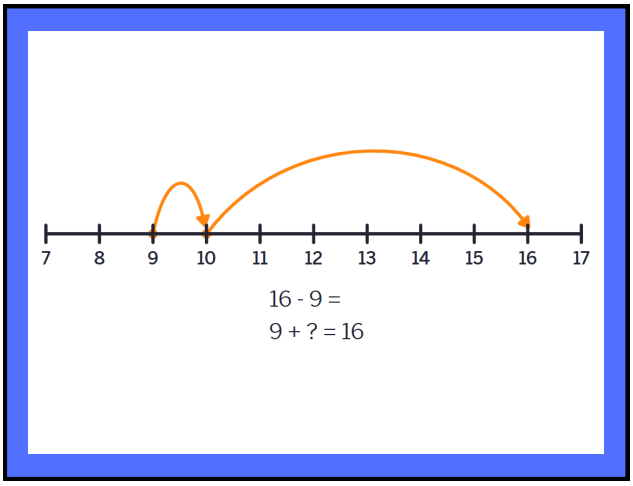
If you get the calculation correct, remove the card from the pile. If you don't, keep it in the pile and keep practising until you do. Draw or describe the number line to help.



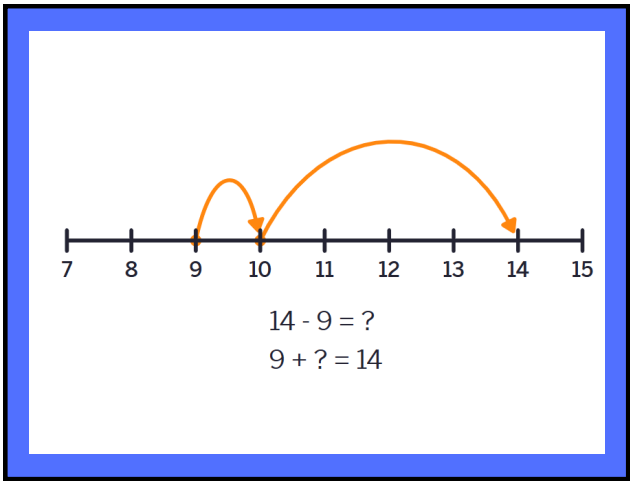
15 - 8 =
8 + ? = 15



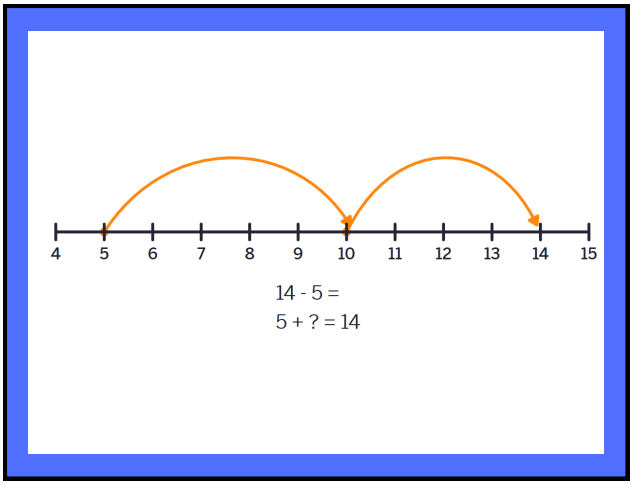
13 - 8 = ?
8 + ? = 13



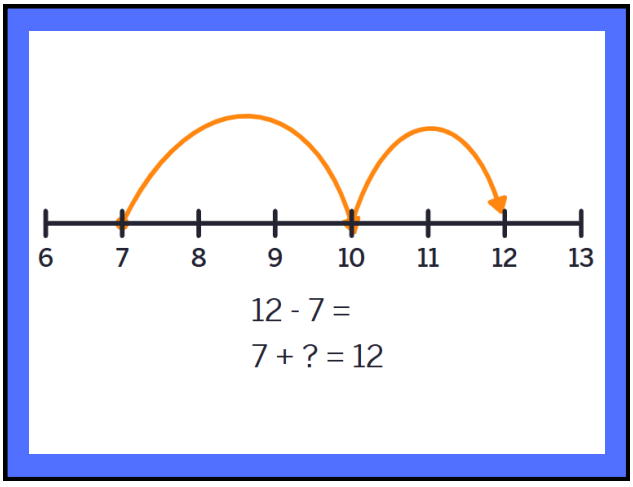
16 - 9 =
9 + ? = 16



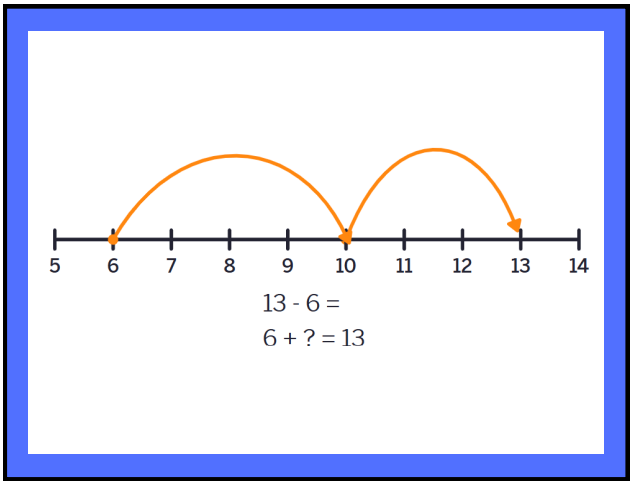
14 - 9 = ?
9 + ? = 14



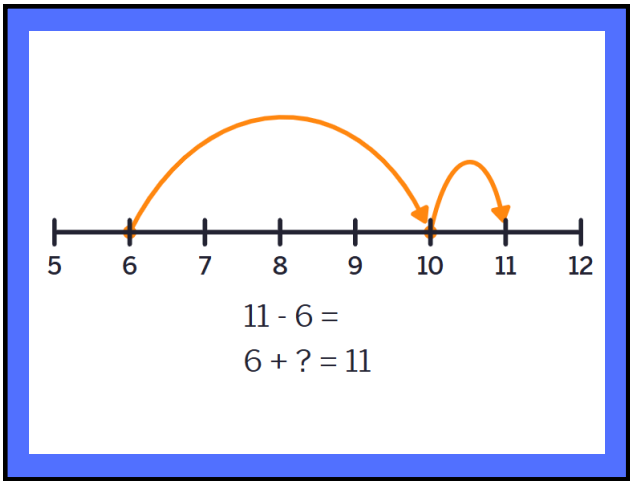
14 - 5 =
5 + ? = 14



12 - 7 =
7 + ? = 12

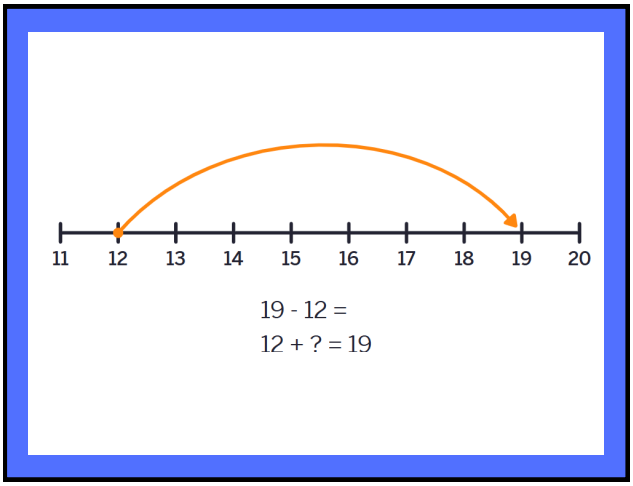


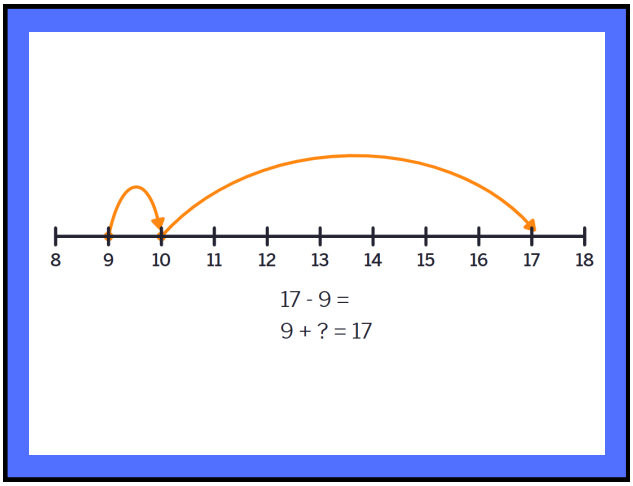
13 - 6 =
6 + ? = 13

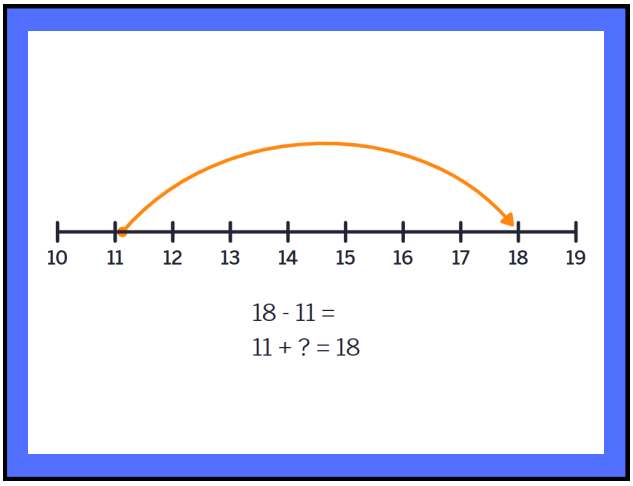


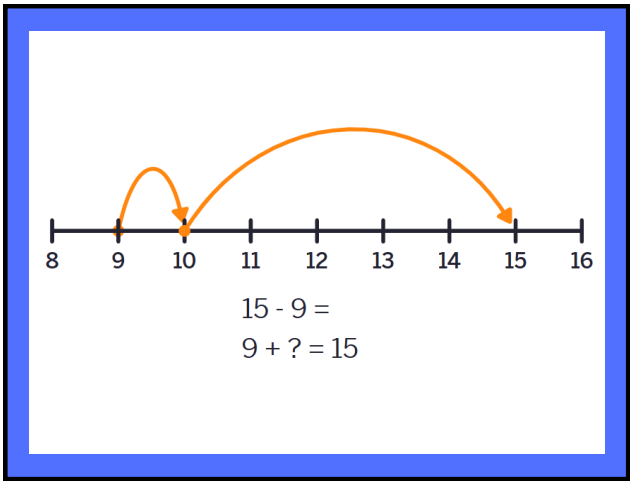
11 - 6 =
6 + ? = 11

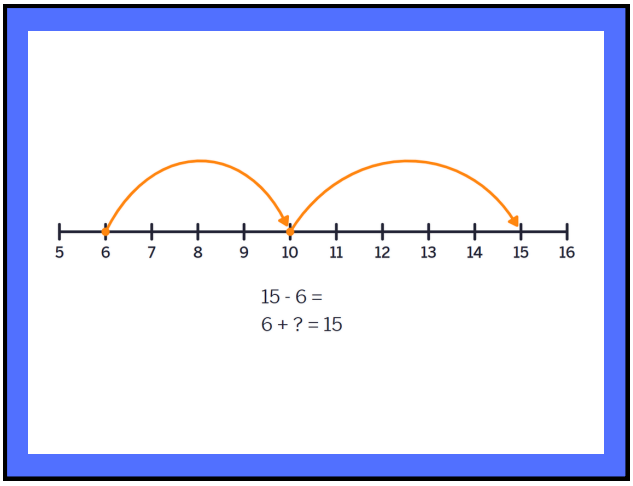
11 - 6 =	12 - 7 =	14 - 9 =	13 - 8 =
13 - 6 =	14 - 5 =	16 - 9 =	15 - 8 =

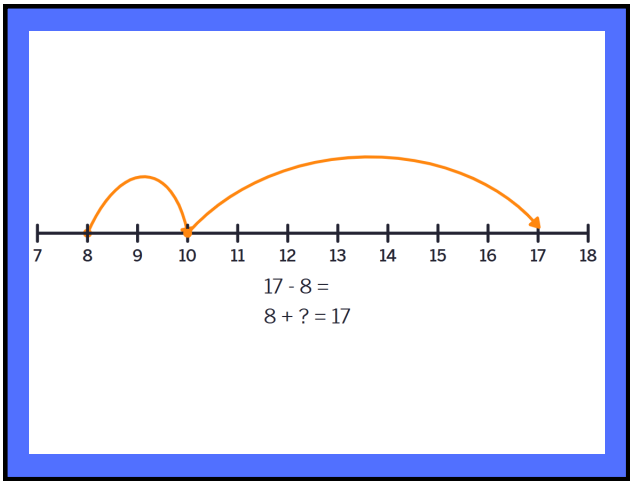


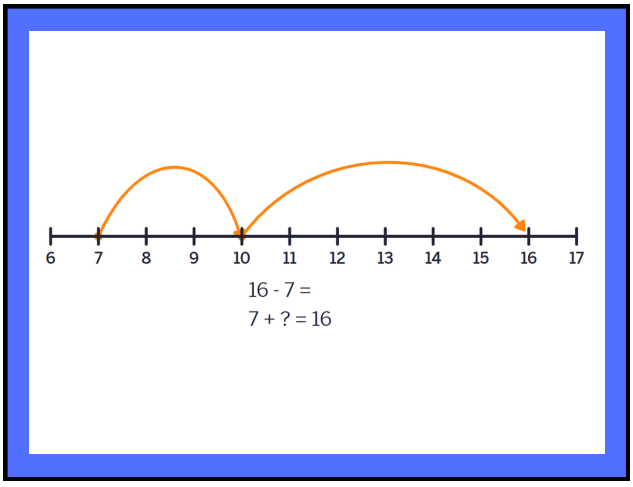












16 - 7 =	17 - 8 =	15 - 9 =	17 - 9 =
	15 - 6 =	18 - 11 =	19 - 12 =

ADDING NINE

Use these cards to explore how to add nine.

Sort & Say

Make single-sided laminated cards.

Mix them up and lay them face up on a table.

Match each addition on the black side with the correct number line on the blue side

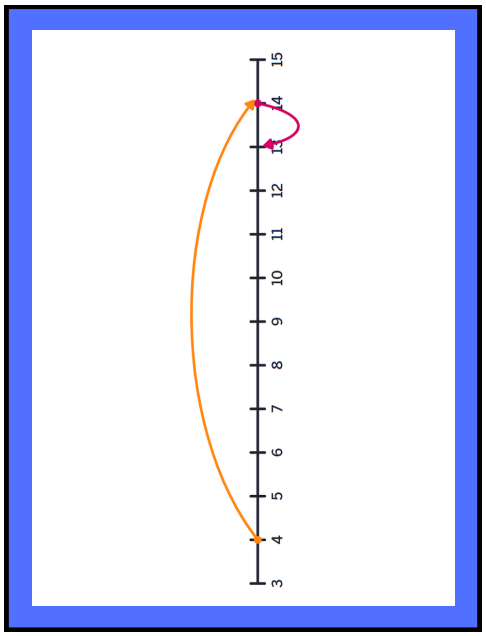
Explain your thinking.

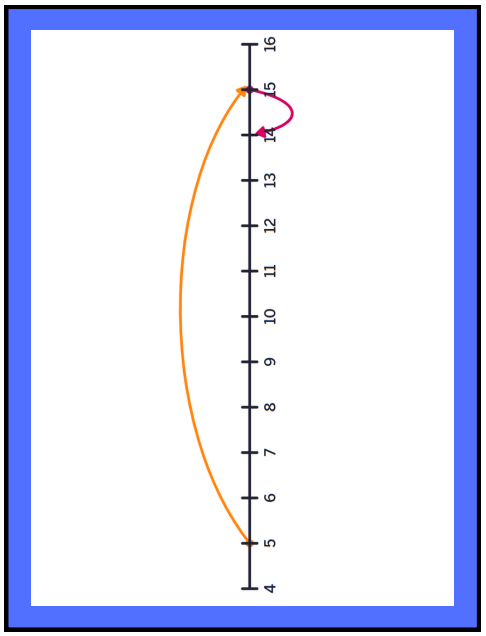
Flip & Say

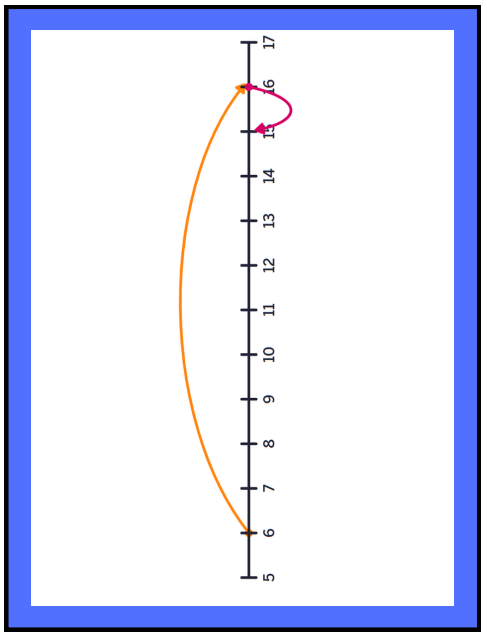
Make double-sided laminated cards and put them in a pile.

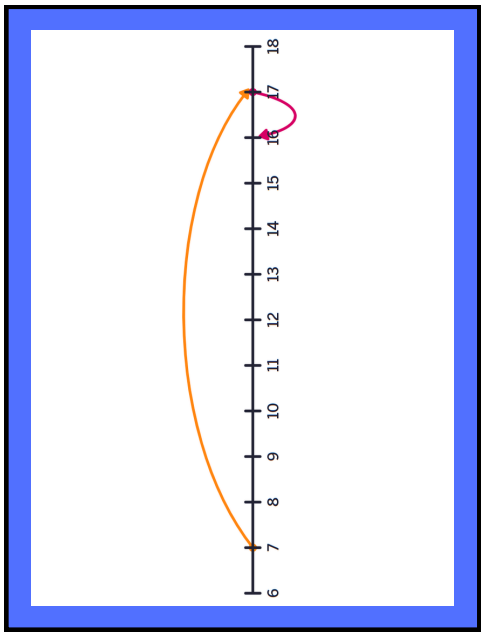
Look at the black side and answer the calculationby adding 10 and then adjusting the answer.

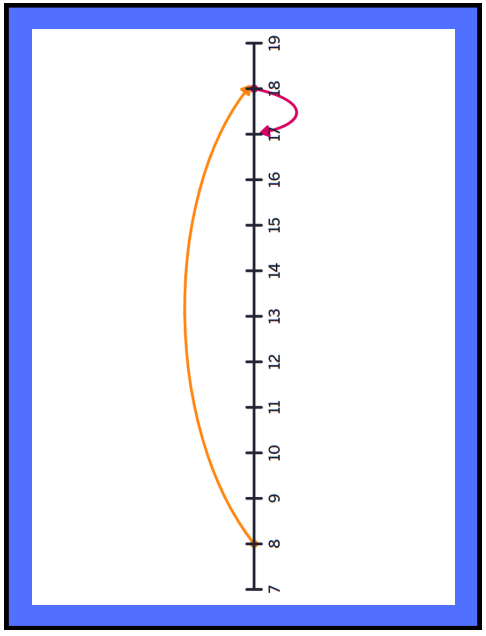
If you get the calculation correct, remove the card from the pile. If you don't, keep it in the pile and keep practising until you do. Draw or describe the number line to help.











Images created using free virtual manipulatives by Amplify available at Polypad.com

7 + 9 =	6 + 9 =	5 + 9 =	4 + 9 =
			8 + 9 =

SUBTRACTING NINE

Use these cards to explore how to subtract nine.

Sort & Say

Make single-sided laminated cards.

Mix them up and lay them face up on a table.

Match each subtractionon the black side with the correct number line on the blue side

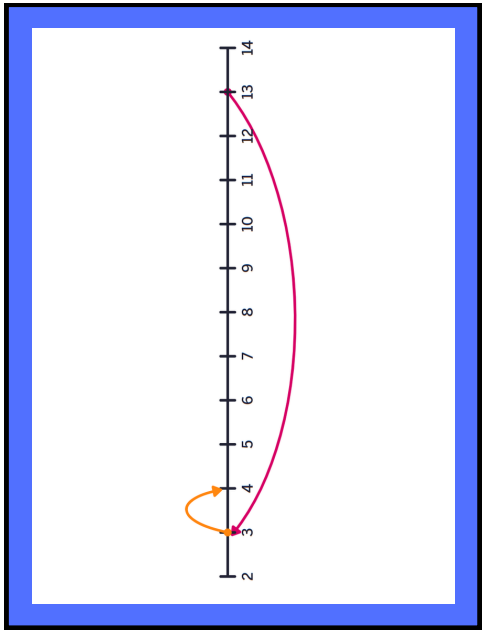
Explain your thinking.

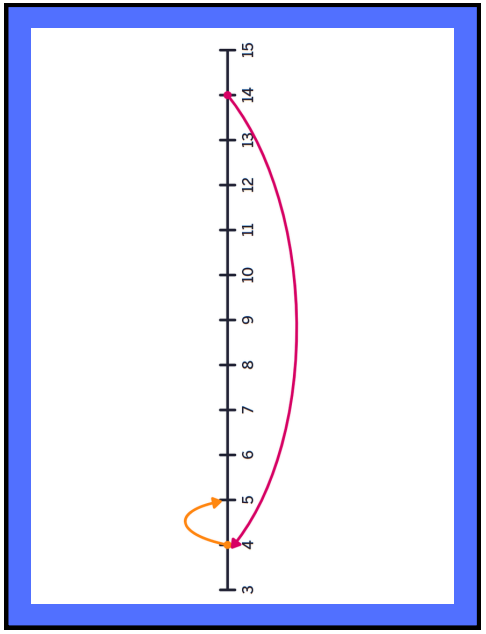
Flip & Say

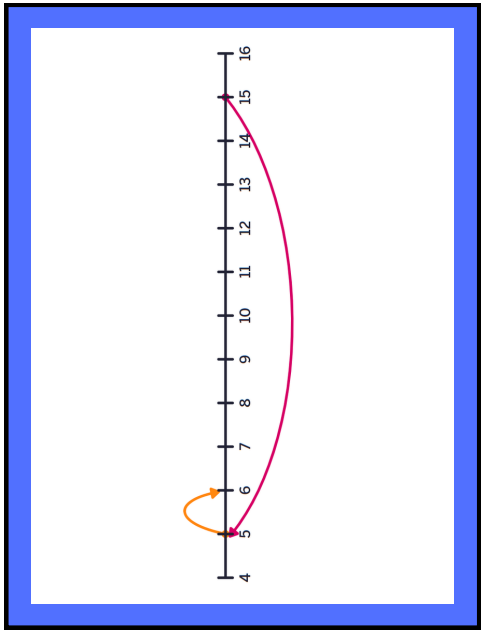
Make double-sided laminated cards and put them in a pile.

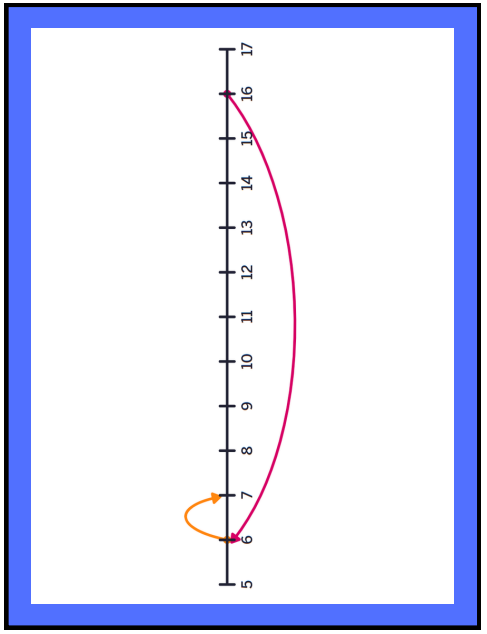
Look at the black side and answer the calculation by subtracting 10 and then adjusting the answer.

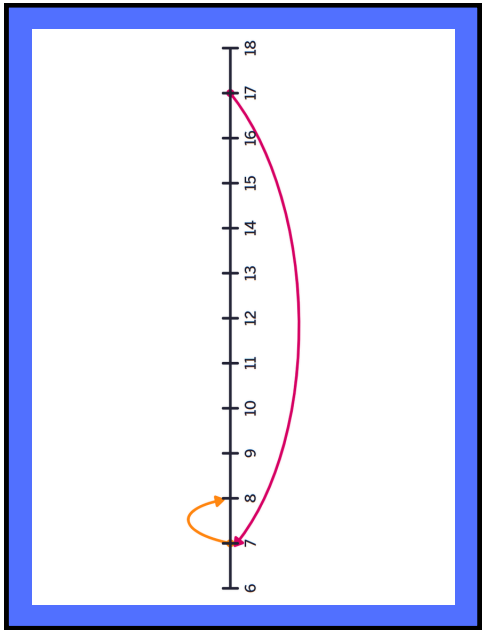
If you get the calculation correct, remove the card from the pile. If you don't, keep it in the pile and keep practising until you do. Draw or describe the number line to help.











Images created using free virtual manipulatives by Amplify available at Polypad.com

16 - 9 =

15 - 9 =

14 - 9 =

13 - 9 =

17 - 9 =