




Create it






Colour the circles to create the bonds of 5.

Complete the number sentences.

$\square + \square = 5$		$5 = \square + \square$
$\square + \square = 5$		$5 = \square + \square$
$\square + \square = 5$		$5 = \square + \square$
$\square + \square = 5$		$5 = \square + \square$
$\square + \square = 5$		$5 = \square + \square$
$\square + \square = 5$		$5 = \square + \square$

Jump it

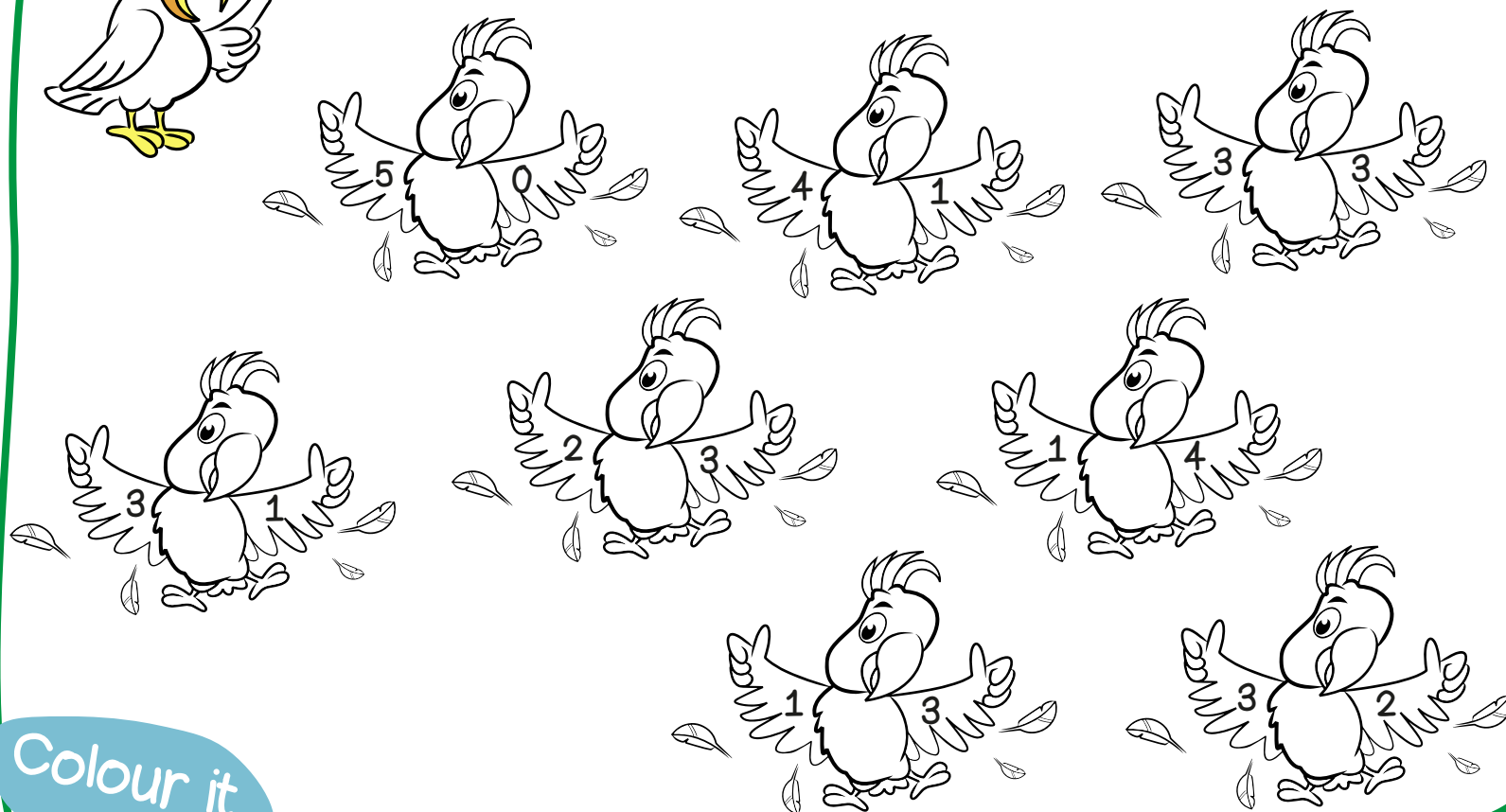
Show some of the bonds of 5 as jumps on number lines.
Write the number sentence each time.

	$5 = \square + \square$
	
	
	
	

5



Add the two numbers on Coco's wings and colour her beak if the total is 5.



Colour all the boxes with a total of 5 to join a path across the grid.

$3 + 3$	$4 + 1$	$2 + 3$	$0 + 5$
$3 + 2$	$2 + 3$	$6 + 1$	$1 + 6$
$1 + 4$	$4 + 2$	$6 + 2$	$3 + 1$
$0 + 5$	$3 + 4$	$3 + 7$	$1 + 7$
$2 + 3$	$1 + 6$	$2 + 8$	$2 + 4$

Start

Colour it

Join it

Snap it

Start with 5 cubes. Snap some off.



$$5 - \square = \square$$

$$5 - \square = \square$$

$$5 - \square = \square$$

$$5 - \square = \square$$

Start	Snap	Left
5		

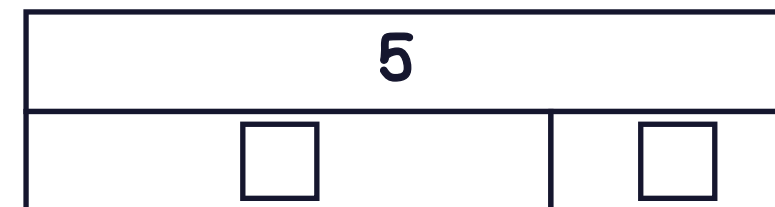
$$\square = 5 - \square$$

$$\square = 5 - \square$$

$$\square = 5 - \square$$

$$\square = 5 - \square$$

Complete the bar model then complete the number sentences.



$$\square + \square = 5$$

$$\square + \square = \square$$

$$5 - \square = \square$$

$$\square - \square = \square$$

$$5 = \square + \square$$

$$\square = \square + \square$$

$$\square = 5 - \square$$

$$\square = \square - \square$$

Model it

5

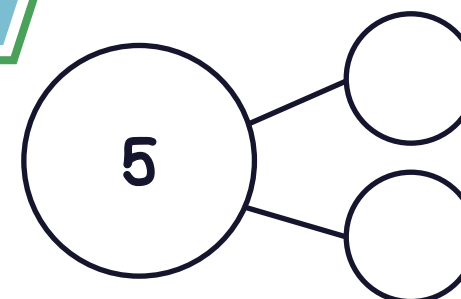
Draw a model and solve the problem.



There were 5 robots marching. 2 robots fell over but the rest were still marching. How many were still marching?

A bag has 4 balls in it. 1 more ball is added to the bag. How many balls are in the bag altogether now?

One room has 3 chairs. A second room has 5 chairs. How many more chairs are in the second room?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the six bonds of 5?

Solve it

Make it

Create it

Colour the circles to create the bonds of 6.

Complete the number sentences.

$\square + \square = 6$		$6 = \square + \square$
$\square + \square = 6$		$6 = \square + \square$
$\square + \square = 6$		$6 = \square + \square$
$\square + \square = 6$		$6 = \square + \square$
$\square + \square = 6$		$6 = \square + \square$
$\square + \square = 6$		$6 = \square + \square$
$\square + \square = 6$		$6 = \square + \square$

Jump it

Show some of the bonds of 6 as jumps on number lines.
Write the number sentence each time.

	$6 = \square + \square$

6



Add the two numbers on Colin's antlers and colour his nose if the total is 6.



Colour all the boxes with a total of 6 to join a path across the grid.

4 + 3	6 + 0	3 + 3	1 + 5
5 + 3	3 + 3	6 + 1	1 + 3
3 + 2	5 + 1	8 + 2	1 + 1
1 + 5	2 + 4	3 + 7	3 + 7
4 + 2	1 + 3	2 + 8	6 + 4

Start

Colour it

Join it

Snap it

Start with 6 cubes. Snap some off.



$$6 - \square = \square$$

$$6 - \square = \square$$

$$6 - \square = \square$$

$$6 - \square = \square$$

$$6 - \square = \square$$

Start	Snap	Left
6		

$$\square = 6 - \square$$

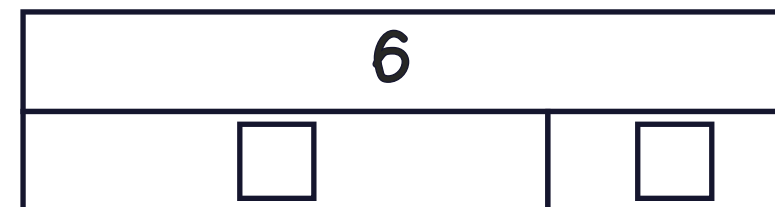
$$\square = 6 - \square$$

$$\square = 6 - \square$$

$$\square = 6 - \square$$

$$\square = 6 - \square$$

Complete the bar model then complete the number sentences.



$$\square + \square = 6$$

$$\square + \square = \square$$

$$6 - \square = \square$$

$$\square - \square = \square$$

$$6 = \square + \square$$

$$\square = \square + \square$$

$$\square = 6 - \square$$

$$\square = \square - \square$$

Model it

Draw a model and solve the problem.

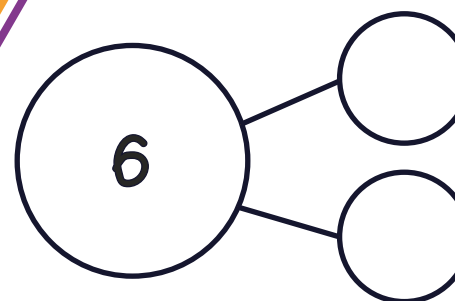


There were 6 girls in a boat.
3 went for a swim.
How many girls were still in the boat?

4 dogs were playing in the park.
2 more arrived.
How many dogs are in the park now?

Robbie collected 4 stickers.
Harry collected 6 stickers.
How many more stickers has Harry than Robbie?

6



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the seven number bonds of 6

Solve it

Make it

Create it

Colour the circles to create the bonds of 7.

Complete the number sentences.

$\square + \square = 7$		$7 = \square + \square$
$\square + \square = 7$		$7 = \square + \square$
$\square + \square = 7$		$7 = \square + \square$
$\square + \square = 7$		$7 = \square + \square$
$\square + \square = 7$		$7 = \square + \square$
$\square + \square = 7$		$7 = \square + \square$
$\square + \square = 7$		$7 = \square + \square$
$\square + \square = 7$		$7 = \square + \square$

Jump it

Show some of the bonds of 7 as jumps on number lines.
Write the number sentence each time.



$7 = \square + \square$



7

Add the two numbers on Coco's wings and colour her beak if the total is 7.



Colour all the boxes with a total of 7 to join a path across the grid.



4 + 3	6 + 1	4 + 3	1 + 5
5 + 2	3 + 3	6 + 1	1 + 6
3 + 4	5 + 2	8 + 2	1 + 1
1 + 5	3 + 4	3 + 7	3 + 7
4 + 3	1 + 6	2 + 8	6 + 4

Start

Colour it

Join it

Snap it

Start with 7 cubes. Snap some off.



$$7 - \square = \square$$

$$7 - \square = \square$$

$$7 - \square = \square$$

$$7 - \square = \square$$

$$7 - \square = \square$$

$$7 - \square = \square$$

Start	Snap	Left
7		

$$\square = 7 - \square$$

$$\square = 7 - \square$$

$$\square = 7 - \square$$

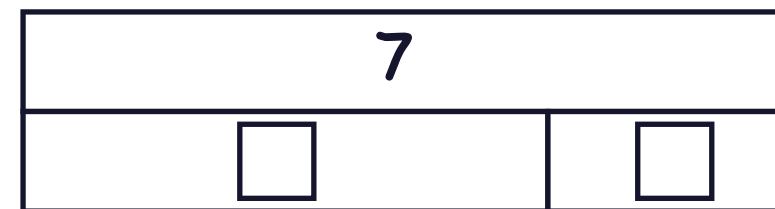
$$\square = 7 - \square$$

$$\square = 7 - \square$$

$$\square = 7 - \square$$

Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 7$$

$$7 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

$$7 - \square = \square$$

$$\square = 7 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$

7

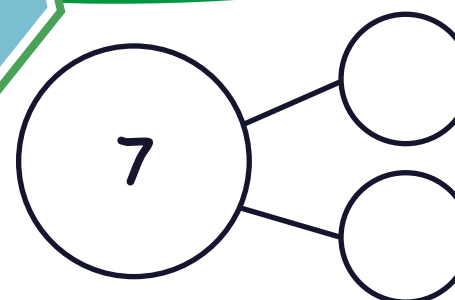
Draw a model and solve the problem.



There were 7 rabbits eating grass. 2 hopped back to their burrow. How many were still eating?

A sunflower was 4cm tall. It grew 3 more cm. How tall is it now?

A sack of potatoes weighed 7kg. 5kg were used. How much does the sack of potatoes weigh now?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the eight number bonds of 7?

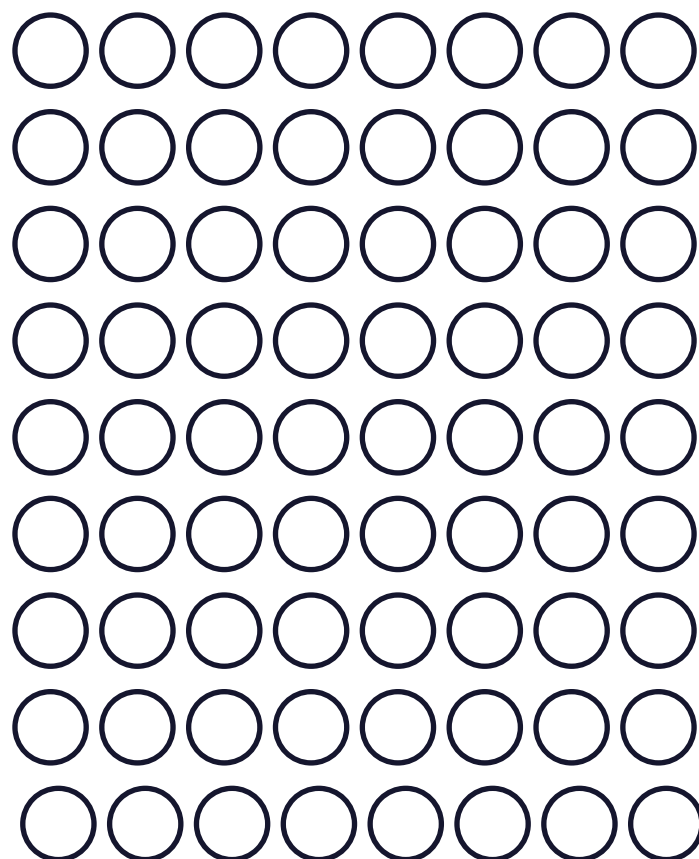
Solve it

Make it

Create it

Colour the circles to create the bonds of 8.
Complete the number sentences.

$$\begin{array}{l} \square + \square = 8 \\ \square + \square = 8 \\ \square + \square = 8 \\ \square + \square = 8 \\ \square + \square = 8 \\ \square + \square = 8 \\ \square + \square = 8 \\ \square + \square = 8 \end{array}$$



Jump it

Show some of the bonds of 8 as jumps on number lines.
Write the number sentence each time.

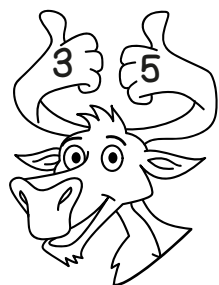


$$8 = \square + \square$$



8

Add the two numbers on Colin's antlers and colour his nose if the total is 8.



Colour all the boxes with a total of 8 to join a path across the grid.



4 + 3	6 + 1	4 + 4	3 + 5
5 + 2	3 + 3	6 + 2	1 + 6
3 + 4	5 + 2	8 + 0	1 + 1
3 + 5	2 + 6	1 + 7	3 + 7
4 + 4	1 + 6	2 + 8	6 + 4

Start

Colour it

Join it

Snap it

Start with 8 cubes. Snap some off.



$$8 - \square = \square$$

$$8 - \square = \square$$

$$8 - \square = \square$$

$$8 - \square = \square$$

$$8 - \square = \square$$

$$8 - \square = \square$$

$$8 - \square = \square$$

Start	Snap	Left
8		

$$\square = 8 - \square$$

$$\square = 8 - \square$$

$$\square = 8 - \square$$

$$\square = 8 - \square$$

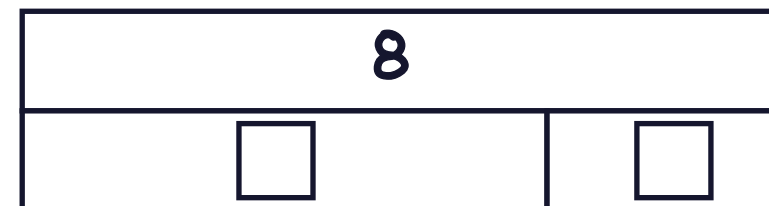
$$\square = 8 - \square$$

$$\square = 8 - \square$$

$$\square = 8 - \square$$

Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 8$$

$$8 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

$$8 - \square = \square$$

$$\square = 8 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$

8

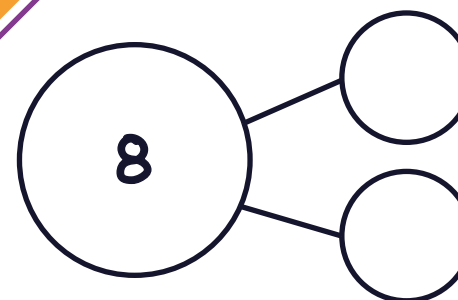


Draw a model and solve the problem.

A dragon lays 8 eggs. 5 eggs hatch. How many eggs have not hatched?

A book costs £8. A pen costs £3. How much more is the book than the pen?

Amy needs 8 plates. She already has 6 plates. How many more plates does she need to get?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the nine bonds of 8?

Solve it

Make it

Create it

Colour the circles to create the bonds of 9.
Complete the number sentences.

$\square + \square = 9$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$\square + \square = 9$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$\square + \square = 9$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$\square + \square = 9$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$\square + \square = 9$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$\square + \square = 9$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$\square + \square = 9$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$\square + \square = 9$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$\square + \square = 9$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Jump it

Show some of the bonds of 9 as jumps on number lines.
Write the number sentence each time.

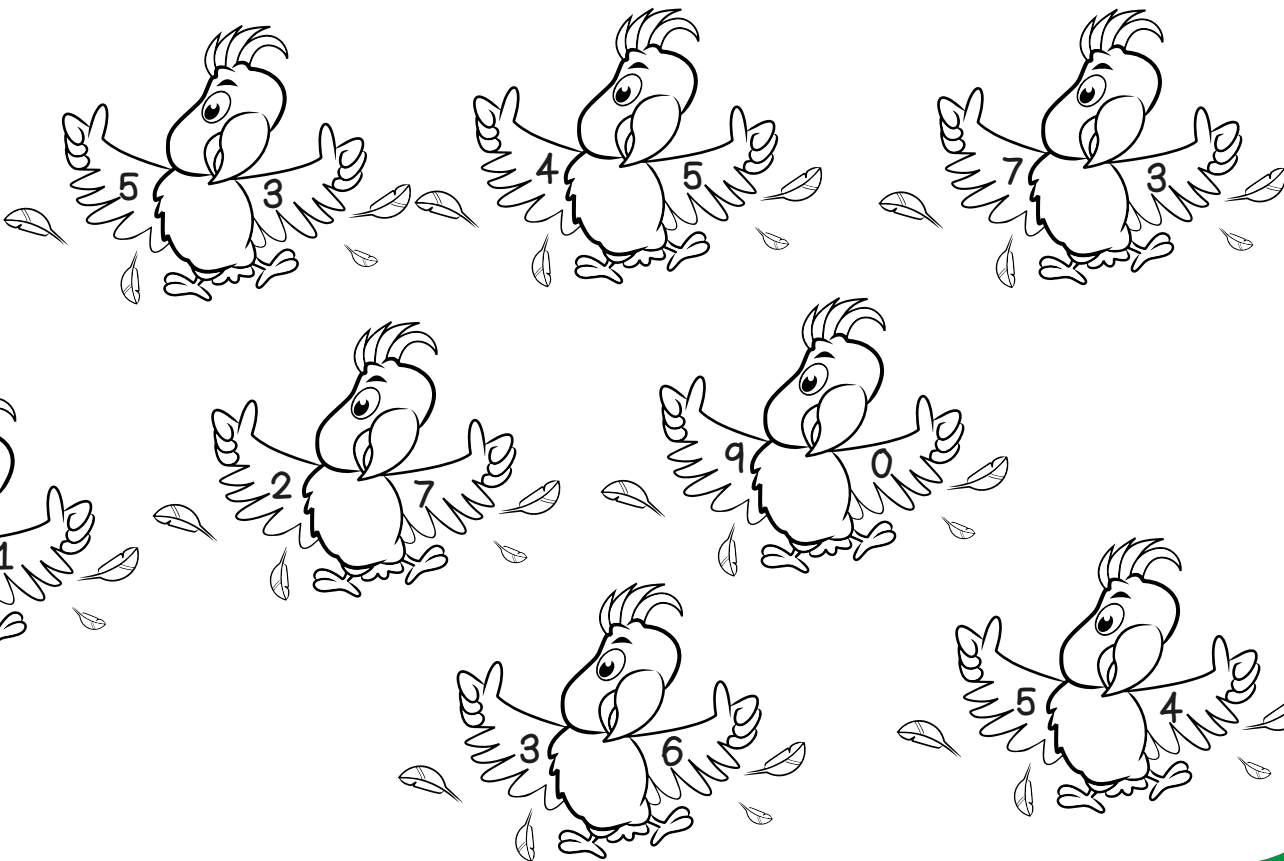


$9 = \square + \square$



9

Add the two numbers on Coco's wings and colour her beak if the total is 9.



Colour all the boxes with a total of 9 to join a path across the grid.



4 + 3	8 + 1	4 + 5	1 + 8	3 + 4
5 + 2	3 + 6	7 + 3	3 + 6	2 + 5
3 + 4	5 + 4	6 + 1	8 + 1	1 + 7
1 + 8	3 + 6	1 + 7	3 + 6	4 + 5
4 + 5	1 + 6	2 + 8	6 + 4	1 + 5

Start

Colour it

Join it

Snap it

Start with 9 cubes. Snap some off.



$$\begin{array}{l} 9 - \square = \square \\ 9 - \square = \square \\ 9 - \square = \square \\ 9 - \square = \square \\ 9 - \square = \square \\ 9 - \square = \square \\ 9 - \square = \square \end{array}$$

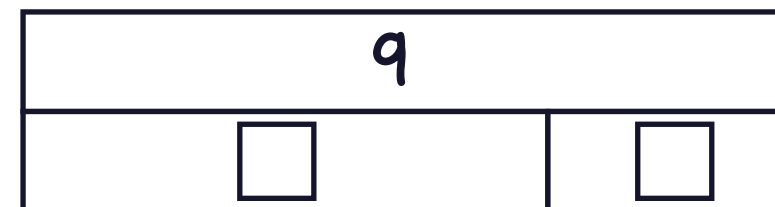
Start	Snap	Left
9		

$$\begin{array}{l} \square = 9 - \square \\ \square = 9 - \square \\ \square = 9 - \square \\ \square = 9 - \square \\ \square = 9 - \square \\ \square = 9 - \square \\ \square = 9 - \square \end{array}$$

9

Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 9$$

$$9 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

$$9 - \square = \square$$

$$\square = 9 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$

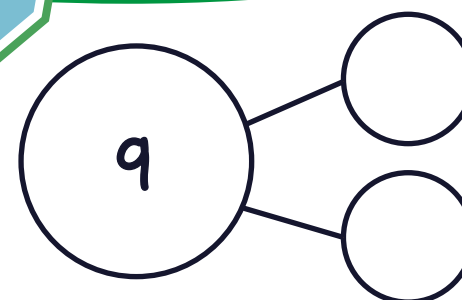


Draw a model and solve the problem.

Hettie ran 4km, then she ran 5 more km. How far has she run altogether?

Alan had £9. He spent £3 on sweets. How much does he have left?

Terry has 9 red and green apples in total. 7 apples are red. How many are green?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the ten bonds of 9?

Solve it

Make it

Create it

Colour the bars to create six bonds of 10.
Complete the number sentences.

$0 + \square = 10$	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
$1 + \square = 10$	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
$2 + \square = 10$	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
$3 + \square = 10$	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
$4 + \square = 10$	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
$5 + \square = 10$	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										

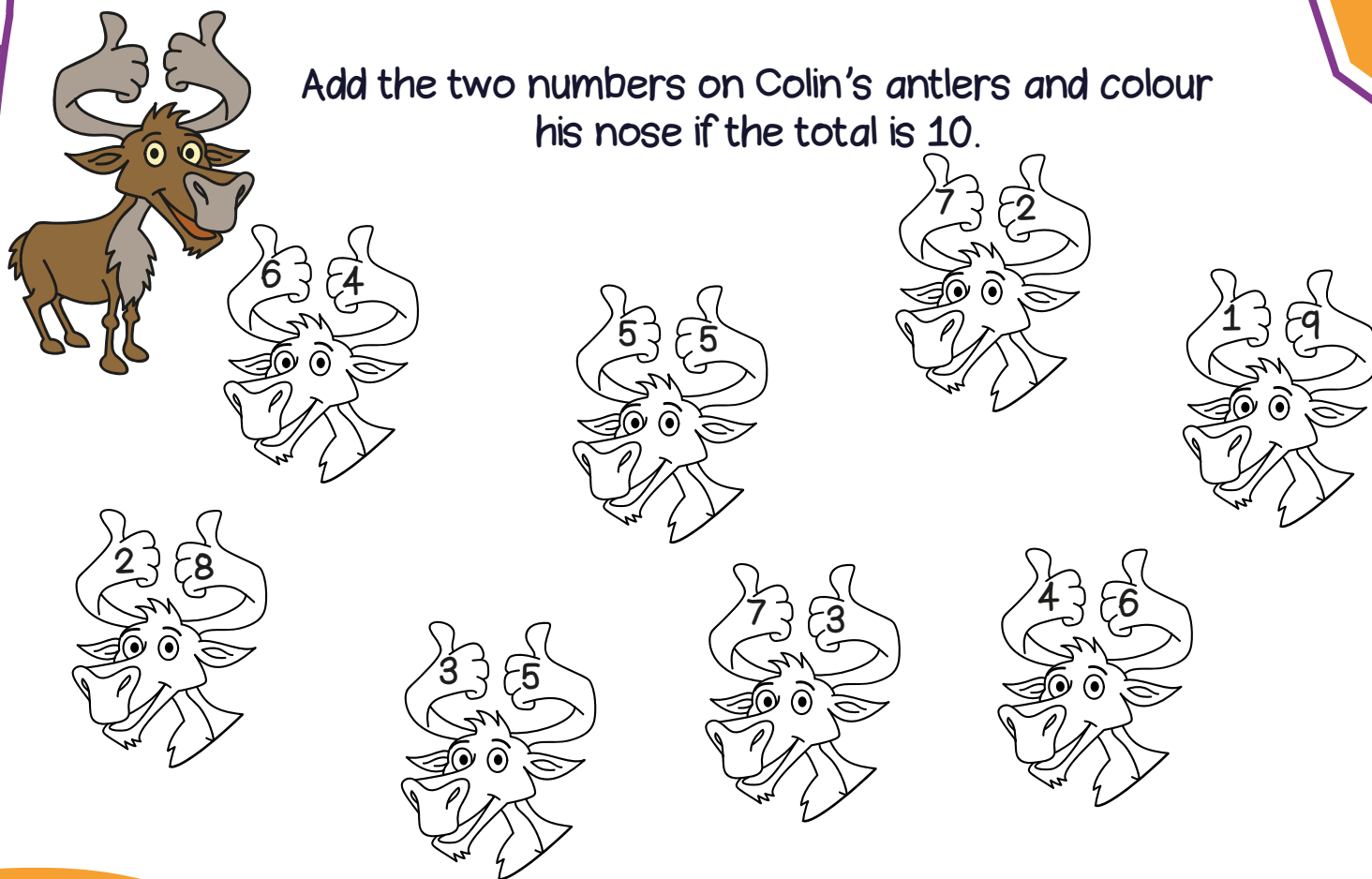
Jump it

Show some of the bonds of 10 as jumps on number lines.
Write the number sentence each time.

<table border="1"><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table>	0	1	2	3	4	5	6	7	8	9	10	$10 = \square + \square$
0	1	2	3	4	5	6	7	8	9	10		
<table border="1"><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table>	0	1	2	3	4	5	6	7	8	9	10	
0	1	2	3	4	5	6	7	8	9	10		
<table border="1"><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table>	0	1	2	3	4	5	6	7	8	9	10	
0	1	2	3	4	5	6	7	8	9	10		
<table border="1"><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table>	0	1	2	3	4	5	6	7	8	9	10	
0	1	2	3	4	5	6	7	8	9	10		
<table border="1"><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table>	0	1	2	3	4	5	6	7	8	9	10	
0	1	2	3	4	5	6	7	8	9	10		

10

Add the two numbers on Colin's antlers and colour his nose if the total is 10.



Colour all the boxes with a total of 10 to join a path across the grid.



4 + 3	6 + 4	4 + 6	3 + 7	3 + 4
5 + 2	3 + 7	6 + 2	2 + 8	2 + 5
1 + 9	8 + 2	8 + 0	9 + 1	1 + 7
5 + 5	2 + 6	1 + 7	3 + 7	5 + 5
4 + 6	1 + 6	2 + 9	6 + 4	1 + 5

Start

Colour it

Join it

Snap it

Start with 10 cubes. Snap off 5 or fewer.



$10 - \square = \square$

$10 - \square = \square$

$10 - \square = \square$

$10 - \square = \square$

$10 - \square = \square$

Start	Snap	Left
10		

$\square = 10 - \square$

$\square = 10 - \square$

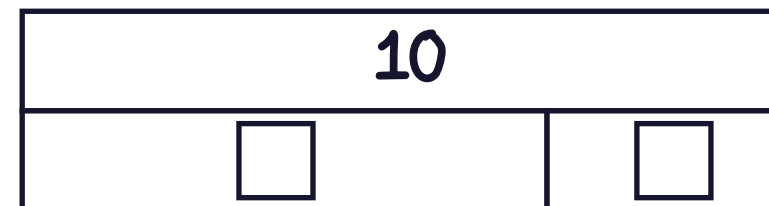
$\square = 10 - \square$

$\square = 10 - \square$

$\square = 10 - \square$

Model it

Complete the bar model then complete the number sentences.



$\square + \square = 10$

$\square + \square = \square$

$10 - \square = \square$

$\square - \square = \square$

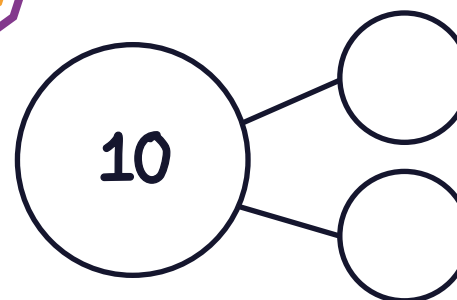
$10 = \square + \square$

$\square = \square + \square$

$\square = 10 - \square$

$\square = \square - \square$

10



Write as many number sentences as you can for your part-part-whole model.



Draw a model and solve the problem.

Meg wants to buy a ticket costing £10. She only has £7. How much more does she need?

There are 6 white kittens and 4 grey kittens. How many kittens are there in total?

A bucket holds 10 litres of water. A horse drinks 5 litres of water. How much is left in the bucket?



How quickly can you write the eleven bonds of 10?

Solve it

Make it

Create it

Colour the bars to create six bonds of 11.
Complete the number sentences.

$$0 + \square = 11$$

$$1 + \square = 11$$

$$2 + \square = 11$$

$$3 + \square = 11$$

$$4 + \square = 11$$

$$5 + \square = 11$$

Jot it

Complete the dominoes to make a total of 11 each time.
Jot some dots or write the number.
Write the number sentence each time.

9	
---	--

$$11 = \square + \square$$

	4
--	---

$$11 = \square + \square$$

3	
---	--

$$11 = \square + \square$$

	6
--	---

$$11 = \square + \square$$

10	
----	--

$$11 = \square + \square$$

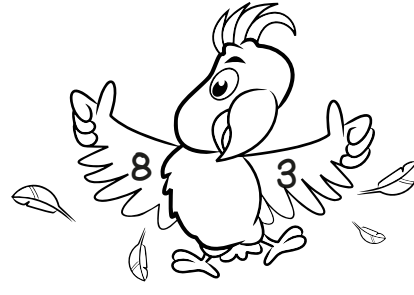
7	
---	--

$$11 = \square + \square$$

--	--	--	--	--	--	--	--	--	--	--	--

11

Add the two numbers on Coco's wings and colour her beak if the total is 11.



Colour all the boxes with a total of 11 to join a path across the grid.

4 + 7	0 + 11	6 + 5	1 + 8	5 + 4
9 + 2	3 + 6	8 + 3	5 + 6	3 + 5
7 + 4	5 + 6	6 + 4	9 + 2	1 + 9
1 + 8	3 + 8	3 + 7	3 + 8	6 + 5
6 + 5	1 + 10	4 + 8	6 + 4	7 + 5

Start

Colour it

Join it

Snap it

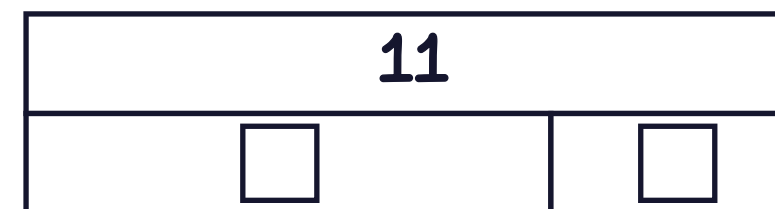
Start with 11 cubes. Snap off 5 or fewer.



	Start	Snap	Left	
$11 - \square = \square$	11			$\square = 11 - \square$
$11 - \square = \square$				$\square = 11 - \square$
$11 - \square = \square$				$\square = 11 - \square$
$11 - \square = \square$				$\square = 11 - \square$
$11 - \square = \square$				$\square = 11 - \square$

Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 11$$

$$11 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

$$11 - \square = \square$$

$$\square = 11 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$

11

Draw a model and solve the problem.



There were 11 red and blue balloons. If 7 were red, how many balloons were blue?

Eric built 11 sandcastles. His brother knocked 3 of them down. How many sandcastles were still standing?

A fence was 6 metres long. The builder made it 5 metres longer. How long was the whole fence?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the twelve bonds of 11?

Solve it

Make it

Create it

Colour the bars to create seven bonds of 12.
Complete the number sentences.

$1 + \square = 12$

$2 + \square = 12$

$3 + \square = 12$

$4 + \square = 12$

$5 + \square = 12$

$6 + \square = 12$

12

Jot it

Complete the dominoes to make a total of 12 each time.
Jot some dots or write the number.
Write the number sentence each time.

8	
---	--

$12 = \square + \square$

	3
--	---

$12 = \square + \square$

5	
---	--

$12 = \square + \square$

	6
--	---

$12 = \square + \square$

10	
----	--

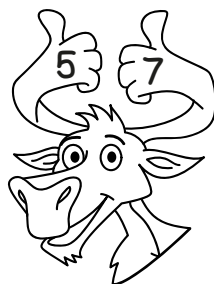
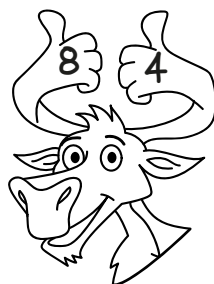
$12 = \square + \square$

7	
---	--

$12 = \square + \square$

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Add the two numbers on Colin's antlers and colour his nose if the total is 12.



Colour all the boxes with a total of 12 to join a path across the grid.

4 + 3	6 + 6	4 + 8	3 + 9	3 + 4
5 + 2	3 + 9	6 + 2	2 + 10	12 + 0
1 + 9	11 + 1	8 + 4	9 + 4	4 + 7
5 + 5	2 + 6	5 + 7	3 + 7	5 + 5
6 + 6	1 + 11	3 + 9	6 + 4	1 + 5

Start

Colour it

Join it

Snap it

Start with 12 cubes. Snap off 5 or fewer.



$12 - \square = \square$

$12 - \square = \square$

$12 - \square = \square$

$12 - \square = \square$

$12 - \square = \square$

$12 - \square = \square$

Start	Snap	Left
12		

$\square = 12 - \square$

$\square = 12 - \square$

$\square = 12 - \square$

$\square = 12 - \square$

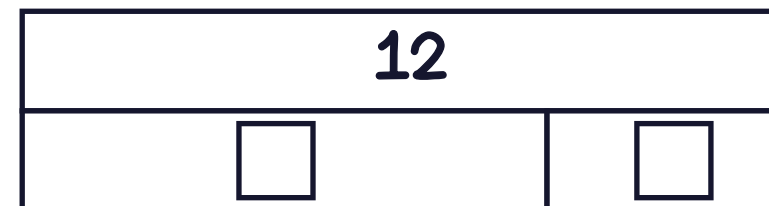
$\square = 12 - \square$

$\square = 12 - \square$

12

Model it

Complete the bar model then complete the number sentences.



$\square + \square = 12$

$\square + \square = \square$

$12 - \square = \square$

$\square - \square = \square$

$12 = \square + \square$

$\square = \square + \square$

$\square = 12 - \square$

$\square = \square - \square$

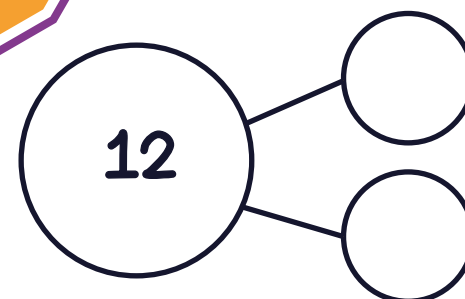


Draw a model and solve the problem.

There are 12 brown and white eggs. If 5 eggs are brown, how many eggs are white?

There are 12 white sheep and 8 black sheep. How many more white sheep than black sheep are there?

A bus travels 8 miles. It then travels 4 more miles. How far has it travelled altogether?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the thirteen bonds of 12?

Solve it

Make it

Create it

Colour the bars to create six bonds of 13.
Complete the number sentences.

$1 + \square = 13$

$2 + \square = 13$

$3 + \square = 13$

$4 + \square = 13$

$5 + \square = 13$

$6 + \square = 13$

Join it

Complete the dominoes to make a total of 13 each time.
Join some dots or write the number.
Write the number sentence each time.

8	
---	--

$13 = \square + \square$

	6
--	---

$13 = \square + \square$

9	
---	--

$13 = \square + \square$

	7
--	---

$13 = \square + \square$

10	
----	--

$13 = \square + \square$

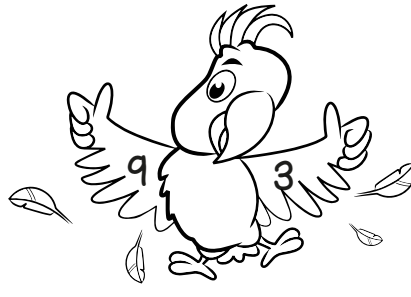
2	
---	--

$13 = \square + \square$

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

13

Add the two numbers on Coco's wings and colour her beak if the total is 13.



Colour all the boxes with a total of 13 to join a path across the grid.

4 + 7	8 + 5	13 + 0	5 + 8	5 + 9
9 + 6	9 + 4	8 + 3	7 + 6	3 + 8
8 + 4	7 + 6	6 + 4	11 + 2	1 + 9
5 + 8	3 + 10	5 + 7	10 + 3	1 + 12
6 + 7	1 + 10	4 + 8	6 + 4	7 + 5

Start

Colour it

Join it

Snap it

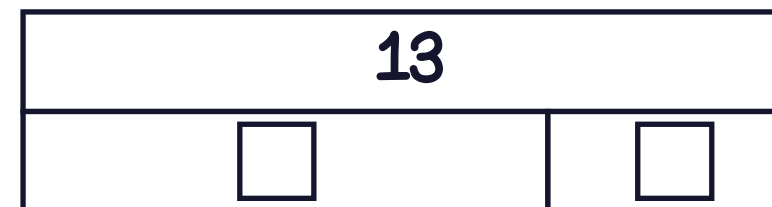
Start with 13 cubes. Snap off 6 or fewer.



	Start	Snap	Left	
$13 - \square = \square$	13			$\square = 13 - \square$
$13 - \square = \square$				$\square = 13 - \square$
$13 - \square = \square$				$\square = 13 - \square$
$13 - \square = \square$				$\square = 13 - \square$
$13 - \square = \square$				$\square = 13 - \square$
$13 - \square = \square$				$\square = 13 - \square$

Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 13$$

$$13 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

$$13 - \square = \square$$

$$\square = 13 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$

13

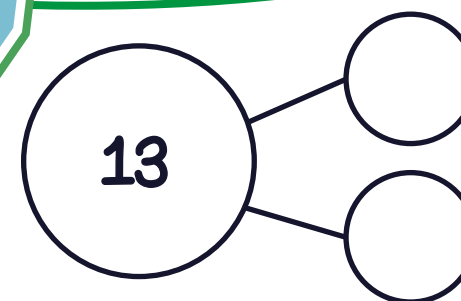
Draw a model and solve the problem.



A teacher needed to sharpen 13 pencils. He sharpened 9. How many still need sharpening?

Sam swims 8 lengths of the pool. After a rest he swims 5 more lengths. How many lengths has he swum in total?

In a pot are 13 flowers. Tim picks 7 of the flowers. How many are still in the pot?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the fourteen bonds of 13?

Solve it

Make it

Create it

Colour the bars to create seven bonds of 14.
Complete the number sentences.

$1 + \square = 14$

$2 + \square = 14$

$3 + \square = 14$

$4 + \square = 14$

$5 + \square = 14$

$6 + \square = 14$

$7 + \square = 14$

14

Join it

Complete the dominoes to make a total of 14 each time.
Join some dots or write the number.
Write the number sentence each time.

9	
---	--

$14 = \square + \square$

	6
--	---

$14 = \square + \square$

5	
---	--

$14 = \square + \square$

	7
--	---

$14 = \square + \square$

10	
----	--

$14 = \square + \square$

8	
---	--

$14 = \square + \square$

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Add the two numbers on Colin's antlers and colour his nose if the total is 14.



Colour all the boxes with a total of 14 to join a path across the grid.

11 + 3	8 + 6	13 + 1	3 + 9	3 + 4
12 + 2	3 + 9	6 + 8	2 + 10	5 + 7
5 + 9	10 + 3	9 + 5	9 + 4	4 + 7
9 + 5	7 + 6	7 + 7	3 + 11	5 + 5
6 + 8	1 + 11	3 + 9	14 + 0	9 + 5

Start

Colour it

Join it

Snap it

Start with 14 cubes. Snap off 7 or fewer.



$14 - \square = \square$

$14 - \square = \square$

$14 - \square = \square$

$14 - \square = \square$

$14 - \square = \square$

$14 - \square = \square$

Start	Snap	Left
14		

$\square = 14 - \square$

$\square = 14 - \square$

$\square = 14 - \square$

$\square = 14 - \square$

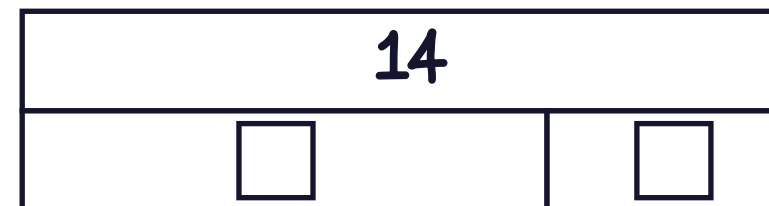
$\square = 14 - \square$

$\square = 14 - \square$

14

Model it

Complete the bar model then complete the number sentences.



$\square + \square = 14$

$\square + \square = \square$

$14 - \square = \square$

$\square - \square = \square$

$14 = \square + \square$

$\square = \square + \square$

$\square = 14 - \square$

$\square = \square - \square$

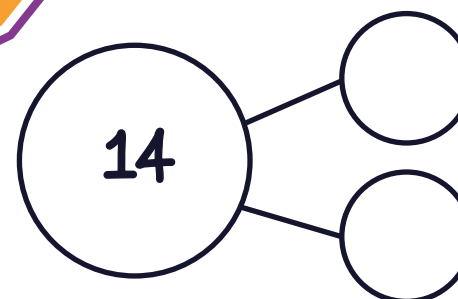


Draw a model and solve the problem.

There are 14 conkers on a branch. 6 fall from the branch. How many conkers are still on the branch?

There are 9 cars in a car park. 5 more cars come into the car park. How many cars are there in total?

Will's tower is 14 cubes high. Jen's tower is 11 cubes high. How much shorter is Jen's tower than Will's?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the fifteen bonds of 14?

Solve it

Make it

Create it

Colour the bars to create seven bonds of 15.
Complete the number sentences.

$$1 + \square = 15$$

$$2 + \square = 15$$

$$3 + \square = 15$$

$$4 + \square = 15$$

$$5 + \square = 15$$

$$6 + \square = 15$$

$$7 + \square = 15$$

Join it

Complete the dominoes to make a total of 15 each time.
Join some dots or write the number.
Complete the number sentence each time.

9	
---	--

$$15 = \square + \square$$

	12
--	----

$$15 = \square + \square$$

10	
----	--

$$15 = \square + \square$$

	7
--	---

$$15 = \square + \square$$

11	
----	--

$$15 = \square + \square$$

	8
--	---

$$15 = \square + \square$$

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

15

Add the two numbers on Coco's wings and colour her beak if the total is 15.

Colour all the boxes with a total of 15 to join a path across the grid.

9 + 6	15 + 0	6 + 9	5 + 10	5 + 9
10 + 5	9 + 4	11 + 3	7 + 8	3 + 12
8 + 7	9 + 6	11 + 4	11 + 2	1 + 9
5 + 8	3 + 10	8 + 7	10 + 3	4 + 9
8 + 7	1 + 14	7 + 8	6 + 4	7 + 5

Start

Colour it

Join it

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Join it

Snap it

There were 15 cubes in each line. How many have been snapped off each line?



$$15 - \square = \square$$



$$15 - \square = \square$$



$$15 - \square = \square$$



$$15 - \square = \square$$



$$15 - \square = \square$$

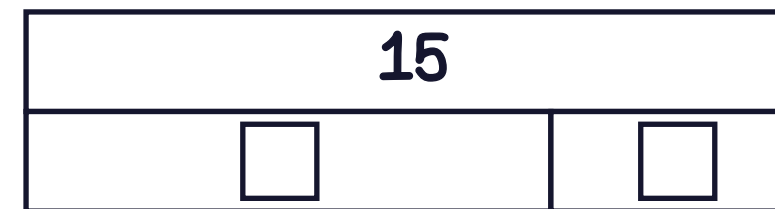


$$15 - \square = \square$$



Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 15$$

$$15 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

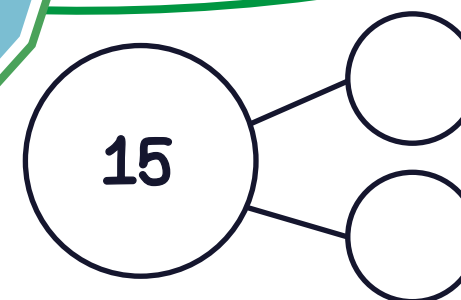
$$15 - \square = \square$$

$$\square = 15 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$

15



Write as many number sentences as you can for your part-part-whole model.

Draw a model and solve the problem.

A rugby team score 15 points. The other team score 9 points. By how many points did they lose?

Terry has a 10p coin and a 5p coin. How much money does he have?

In a pot are 15 blue and green crayons. There are 7 blue crayons. How many green crayons are there?

Solve it



How quickly can you write the sixteen bonds of 15?

Make it

Create it

Use the bonds of 6 to create bonds of 16.
Complete the number sentences.

$$1 + 5 = 6$$



$$1 + \square = 16$$

$$11 + \square = 16$$

$$2 + 4 = 6$$



$$\square + \square = 16$$

$$\square + \square = 16$$

$$3 + 3 = 6$$



$$\square + \square = 16$$

$$\square + \square = 16$$

16

Join it

Complete the dominoes to make a total of 16 each time.
Join some dots or write the number.
Write the number sentence each time.

9	
---	--

$$16 = \square + \square$$

	6
--	---

$$16 = \square + \square$$

7	
---	--

$$16 = \square + \square$$

	13
--	----

$$16 = \square + \square$$

10	
----	--

$$16 = \square + \square$$

8	
---	--

$$16 = \square + \square$$



Add the two numbers on Colin's antlers and colour his nose if the total is 16.



Colour all the boxes with a total of 16 to join a path across the grid.

11 + 3	8 + 8	6 + 10	7 + 9	8 + 8
12 + 2	7 + 9	6 + 8	2 + 10	5 + 7
5 + 9	10 + 6	11 + 5	9 + 7	4 + 7
9 + 5	7 + 6	7 + 7	5 + 11	5 + 5
8 + 8	5 + 11	7 + 9	6 + 10	9 + 5

Start

Colour it

Join it

Snap it

There were 16 cubes in each line. How many have been snapped off each line?



$$16 - \square = \square$$



$$16 - \square = \square$$



$$16 - \square = \square$$



$$16 - \square = \square$$



$$16 - \square = \square$$

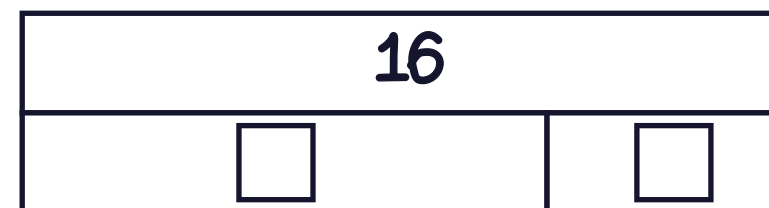


$$16 - \square = \square$$



Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 16$$

$$16 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

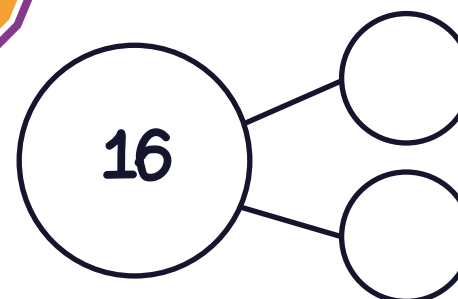
$$16 - \square = \square$$

$$\square = 16 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$

16



Write as many number sentences as you can for your part-part-whole model.



Draw a model and solve the problem.

16 cars park outside the school. 9 cars park in the school car park. How many more cars are outside the school than in the car park?

There 16 tins of beans in a display. 8 tins are sold. How many tins are still in the display?

Jack goes up to floor 10 in a lift. He then goes up 6 more floors. What floor is he on now?



How quickly can you write the seventeen bonds of 16?

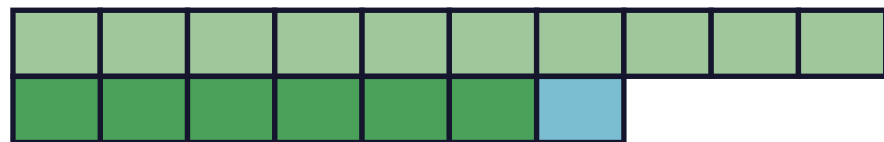
Solve it

Make it

Create it

Use the bonds of 7 to create bonds of 17.
Complete the number sentences.

$$1 + 6 = 7$$



$$1 + \square = 17$$

$$11 + \square = 17$$

$$2 + 5 = 7$$



$$\square + \square = 17$$

$$\square + \square = 17$$

$$3 + 4 = 7$$



$$\square + \square = 17$$

$$\square + \square = 17$$

17

Join it

Complete the dominoes to make a total of 17 each time.
Join some dots or write the number.
Write the number sentence each time.

	8
--	---

$$17 = \square + \square$$

	12
--	----

$$17 = \square + \square$$

10	
----	--

$$17 = \square + \square$$

	7
--	---

$$17 = \square + \square$$

11	
----	--

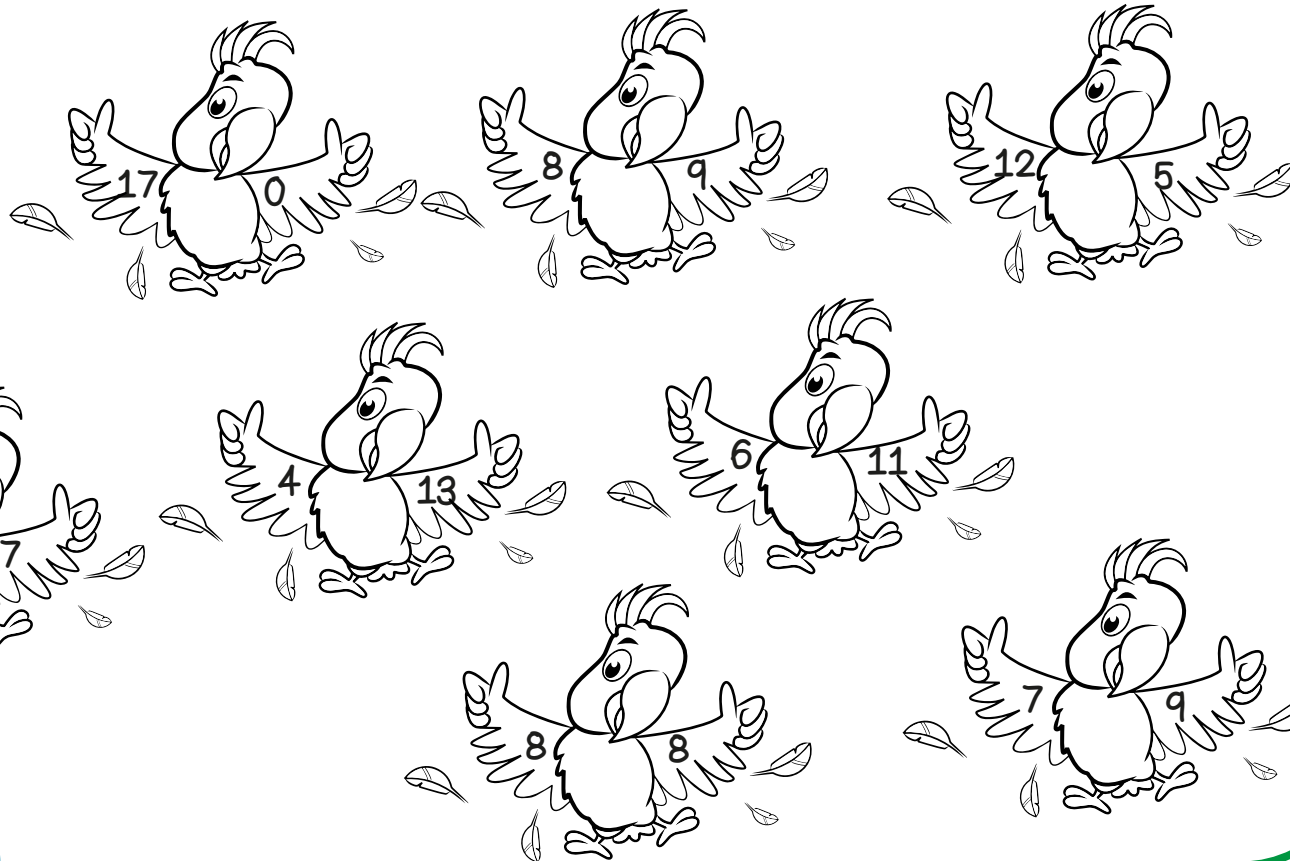
$$17 = \square + \square$$

	9
--	---

$$17 = \square + \square$$



Add the two numbers on Coco's wings and colour her beak if the total is 17.



Colour all the boxes with a total of 17 to join a path across the grid.

$9 + 6$	$0 + 17$	$8 + 9$	$6 + 11$	$5 + 9$
$10 + 5$	$13 + 4$	$11 + 3$	$13 + 4$	$3 + 12$
$8 + 7$	$9 + 8$	$11 + 4$	$12 + 5$	$7 + 9$
$5 + 12$	$7 + 10$	$8 + 7$	$14 + 3$	$4 + 9$
$8 + 9$	$5 + 10$	$7 + 8$	$16 + 1$	$8 + 9$

Start

Colour it

Join it

Snap it

There were 17 cubes in each line. How many have been snapped off each line?



$$17 - \square = \square$$



$$17 - \square = \square$$



$$17 - \square = \square$$



$$17 - \square = \square$$



$$17 - \square = \square$$



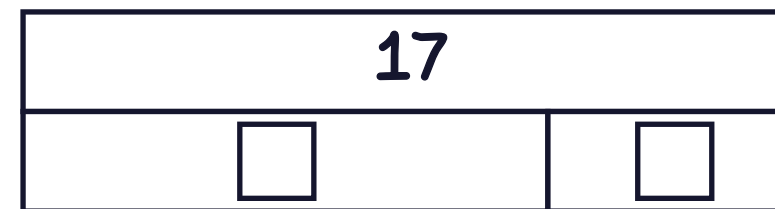
$$17 - \square = \square$$



17

Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 17$$

$$17 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

$$17 - \square = \square$$

$$\square = 17 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$

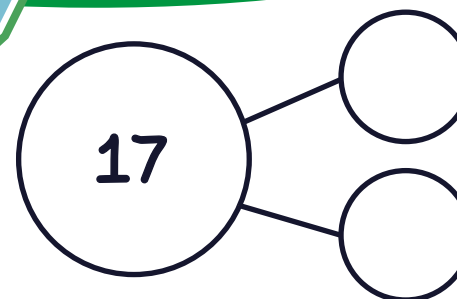


Draw a model and solve the problem.

There are 17 seats in a minibus. 12 people sit in the minibus. How many seats are free?

Rob is 17 years old. Libby is 9 years old. How much older is Rob than Libby?

Tom plants 11 trees. Millie plants 6 trees. How many do they plant in total?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the eighteen bonds of 17?

Solve it

Make it

Create it

Use the bonds of 6 to create bonds of 16.
Complete the number sentences.

$1 + 7 = 8$



$1 + \square = 18$

$11 + \square = 18$

$2 + 6 = 8$



$\square + \square = 18$

$\square + \square = 18$

$3 + 5 = 8$



$\square + \square = 18$

$\square + \square = 18$

18

Join it

Complete the dominoes to make a total of 18 each time.
Join some dots or write the number.
Write the number sentence each time.

5	
---	--

$18 = \square + \square$

	16
--	----

$18 = \square + \square$

7	
---	--

$18 = \square + \square$

	13
--	----

$18 = \square + \square$

12	
----	--

$18 = \square + \square$

8	
---	--

$18 = \square + \square$



Add the two numbers on Colin's antlers and colour his nose if the total is 18.



Colour all the boxes with a total of 18 to join a path across the grid.

18 + 0	11 + 7	6 + 12	7 + 9	8 + 8
12 + 6	7 + 9	14 + 4	2 + 10	5 + 7
5 + 13	10 + 6	13 + 5	9 + 7	4 + 7
9 + 9	7 + 6	17 + 1	5 + 13	5 + 5
8 + 10	5 + 11	7 + 9	2 + 16	3 + 15

Start

Colour it

Join it

Snap it

There were 18 cubes in each line. How many have been snapped off each line?



$$18 - \square = \square$$



$$18 - \square = \square$$



$$18 - \square = \square$$



$$18 - \square = \square$$



$$18 - \square = \square$$



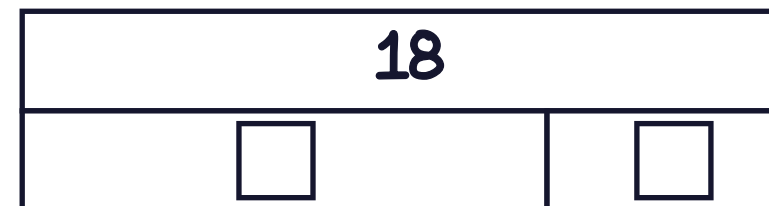
$$18 - \square = \square$$



18

Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 18$$

$$18 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

$$18 - \square = \square$$

$$\square = 18 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$



Draw a model and solve the problem.

There are 9 dragons in a cave. 9 more dragons arrive. How many dragons are in the cave now?

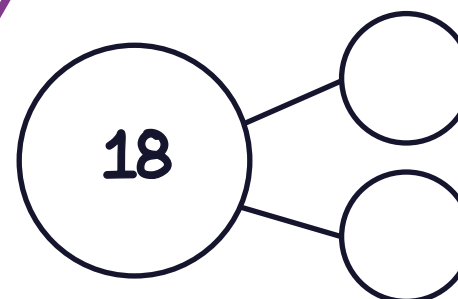
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A tower is 16 bricks high. A second tower is 18 bricks high. How many bricks taller is the second tower than the first tower?

--

Helen has 18 stickers. She gives 3 stickers to Lisa. How many stickers has Helen got left?

--



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the nineteen bonds of 18?

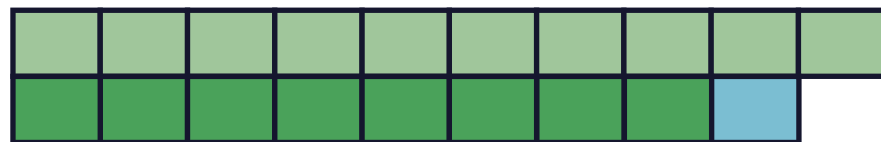
Solve it

Make it

Create it

Use the bonds of 9 to create bonds of 19.
Complete the number sentences.

$$1 + 8 = 9$$



$$1 + \square = 19 \quad 11 + \square = 19$$

$$2 + 7 = 9$$



$$\square + \square = 19 \quad \square + \square = 19$$

$$3 + 6 = 9$$



$$\square + \square = 19 \quad \square + \square = 19$$

Jot it

Complete the dominoes to make a total of 19 each time.
Jot some dots or write the number.
Write the number sentence each time.

	14
--	----

$$19 = \square + \square$$

	12
--	----

$$19 = \square + \square$$

10	
----	--

$$19 = \square + \square$$

	7
--	---

$$19 = \square + \square$$

15	
----	--

$$19 = \square + \square$$

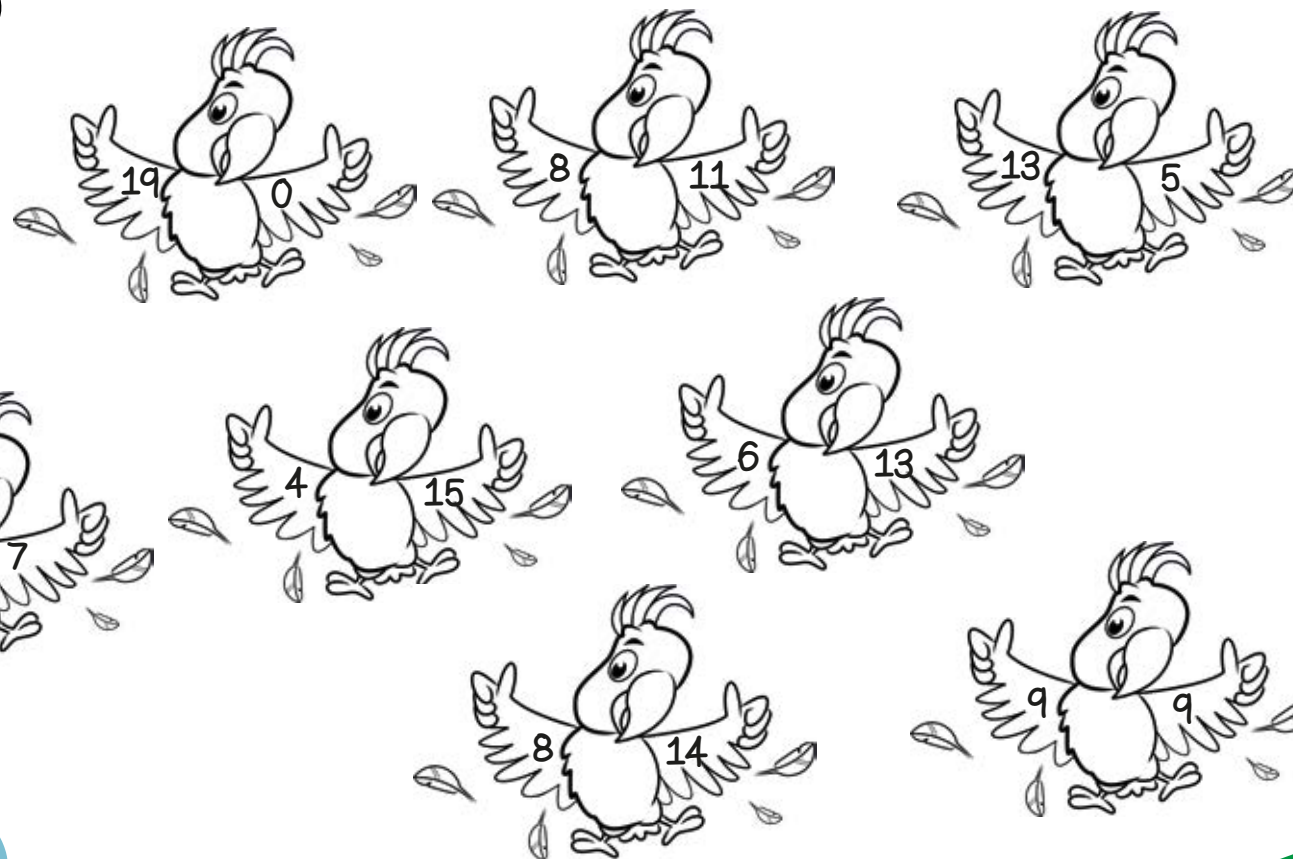
	8
--	---

$$19 = \square + \square$$



19

Add the two numbers on Coco's wings and colour her beak if the total is 19.



Colour all the boxes with a total of 19 to join a path across the grid.



13 + 6	0 + 19	8 + 11	7 + 11	15 + 3
14 + 5	16 + 4	16 + 3	13 + 6	3 + 12
12 + 7	11 + 8	11 + 4	12 + 7	7 + 9
5 + 12	7 + 12	8 + 12	15 + 4	1 + 18
10 + 9	5 + 14	17 + 1	16 + 1	9 + 9

Start

Colour it

Join it

Snap it

There were 19 cubes in each line. How many have been snapped off each line?



$$19 - \square = \square$$



$$19 - \square = \square$$



$$19 - \square = \square$$



$$19 - \square = \square$$



$$19 - \square = \square$$



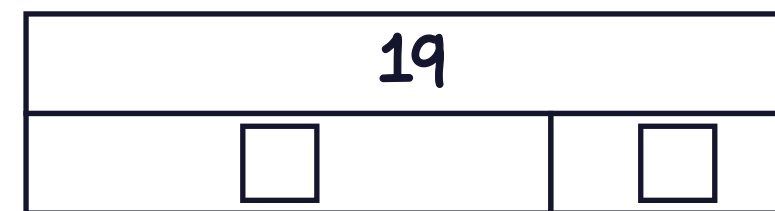
$$19 - \square = \square$$



19

Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 19$$

$$19 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

$$19 - \square = \square$$

$$\square = 19 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$

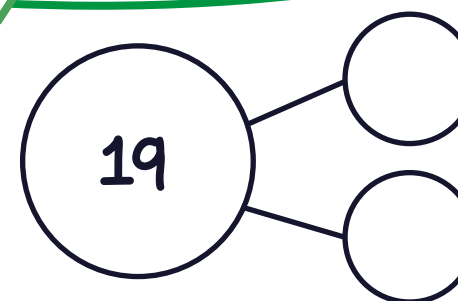


Draw a model and solve the problem.

There are 19 children in a park. 8 are boys and the rest are girls. How many girls are there?

A book has 19 pages. Colin reads 10 pages. How many pages has he left to read?

In a field are 3 black sheep and 16 white sheep. How many sheep are in the field altogether?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the twenty bonds of 19?

Solve it

Make it

Create it

Use the bonds of 10 to create bonds of 20.
Complete the number sentences.

$1 + 9 = 10$



$1 + \square = 20 \quad 11 + \square = 20$

$2 + 8 = 10$



$\square + \square = 20 \quad \square + \square = 20$

$3 + 7 = 10$



$\square + \square = 20 \quad \square + \square = 20$

20

Join it

Complete the dominoes to make a total of 20 each time.
Join some dots or write the number.
Write the number sentence each time.

16	
----	--

$20 = \square + \square$

	5
--	---

$20 = \square + \square$

7	
---	--

$20 = \square + \square$

	14
--	----

$20 = \square + \square$

12	
----	--

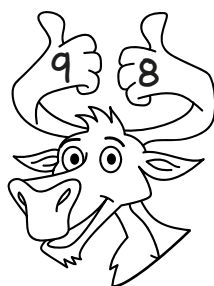
$20 = \square + \square$

9	
---	--

$20 = \square + \square$



Add the two numbers on Colin's antlers and colour his nose if the total is 20.



Colour all the boxes with a total of 20 to join a path across the grid.

$18 + 1$	$13 + 7$	$16 + 4$	$10 + 10$	$8 + 18$
$12 + 6$	$17 + 3$	$14 + 4$	$2 + 18$	$5 + 17$
$8 + 13$	$14 + 6$	$13 + 5$	$5 + 15$	$14 + 7$
$11 + 9$	$7 + 13$	$17 + 1$	$19 + 1$	$11 + 5$
$8 + 12$	$8 + 11$	$9 + 9$	$3 + 17$	$20 + 0$

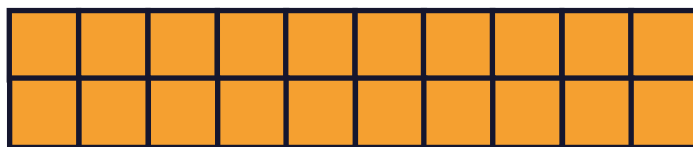
Start

Colour it

Join it

Snap it

There were 20 cubes in each set. How many have been snapped off each set?



$$20 - \square = \square$$



$$20 - \square = \square$$



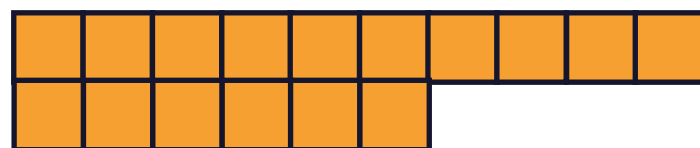
$$20 - \square = \square$$



$$20 - \square = \square$$



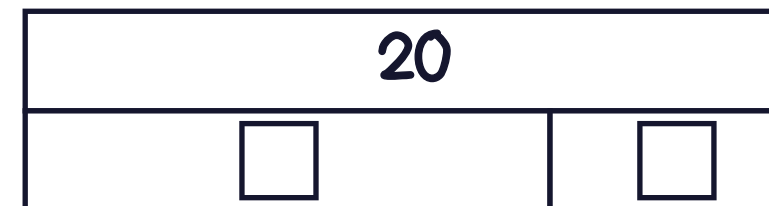
$$20 - \square = \square$$



20

Model it

Complete the bar model then complete the number sentences.



$$\square + \square = 20$$

$$20 = \square + \square$$

$$\square + \square = \square$$

$$\square = \square + \square$$

$$20 - \square = \square$$

$$\square = 20 - \square$$

$$\square - \square = \square$$

$$\square = \square - \square$$

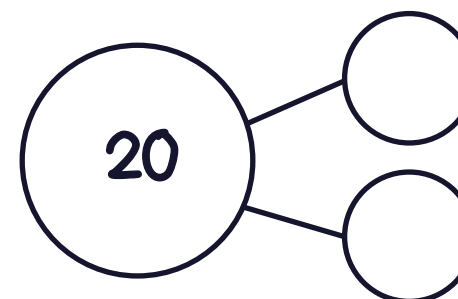


Draw a model and solve the problem.

George buys a book for £10 and a game for £10. How much does he spend altogether?

Jack is 20 years old and Fred is 18 years old. How many years older is Jack than Fred?

There are 20 seats in a row. There are 6 empty seats. How many seats have people sitting in them?



Write as many number sentences as you can for your part-part-whole model.



How quickly can you write the twenty one bonds of 20?

Solve it

Make it