Bond Blocks Support Book:

Answers

- 6 Bonds of 5) Bonds: Building a Wall
- 12 Bonds of 5) Equation: Building
- 15 Bonds of 5) Word Problems: Wholes to 5
- 19 Doubling and Halving to 10) Near Double: Strategy Concept (core)
- 19 Doubling and Halving to 10) Near Double: Strategy Concept (a little harder)
- 26 Bonds of 10) Bonds: Building a Wall
- 31 Bonds of 10) Equation: Building
- 34 Bonds of 6, 7, 8, 9) Bonds: Building a Wall

- 38 Bonds of 6, 7, 8, 9) Equation: Building
- 40 Bonds of 6, 7, 8, 9) Word Problems: Wholes to 10
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- 62 Doubling and Halving to 20) Near Double: Strategy Concept (core)
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- 66 Bonds of 11 to 20) Equation: Building
- 68 Bonds of 11 to 20) Word Problems: Wholes to 20







Narelle Rice & Dr Paul Swan

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Bond Blocks Support Book - Answers

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Thank you for purchasing Bond Blocks.

We hope they help build

Curiosity, Connections and Confidence with maths.

- Narelle and Paul.

Contents

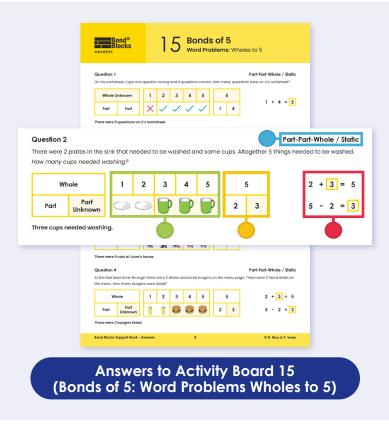
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About This Book

Answers for Written Student Responses

Bond Block activity boards that require a written student response have a corresponding answer sheet to assist with marking. Whilst the activity boards are A3, the answer sheets are in an A4 format for ease of printing. For example, Activity Board 6 and a corresponding answer sheet is shown below.

6 Bonds of 5 Building a Wall	Bonds 🜪		1 Player N. Rice & P. Swan www.bondidock.com	Bond® Blocks	6 Bonds of 5 Bonds: Building a Wall
Section One	e . 5	Section Two	Section Three	ANSWERS	Contrast building of Hom
				Section One 5 1 4 2 3 3 2 4 1	Section Three 5 5 5 6 0 0 5
Sec. Sec. Sciences y and the two-pert bonds of 6. To use the communities property of addition to denoty- equitated bonds of y. Med. Competences success per leason.	Materials The second s	Node Part Part		5 Section Two 5 4 3 2	
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. Verbalise the two-Part leads of Five Verbalise the two-part forces of the whist pointing to the related block. The example, "Zero and five is five". "One and four is five."				Bend Blocks Support Book - Answers	4 O.N. Roe 1.7.5w
(Во		ity Board 6 nds Building	a Wall)		ers to Section 3 tivity Board 6



Answers for Word Problems

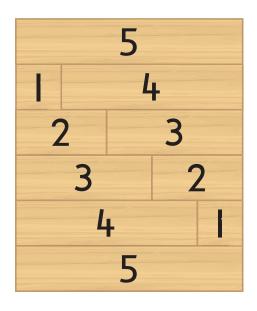
Answers to the word problems have been provided at three levels:

- **Concrete:** solved using objects or drawing that can be counted with one-to-one correspondence.
- **Representational:** in the form of a part-part-whole diagram.
- Abstract: in a number sentence. Where a problem could be solved using either addition or subtraction, both options are given.
- Information relating to the Teacher Notes: Solving Word Problems.

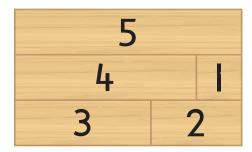




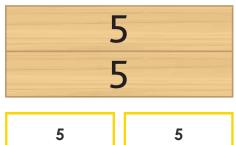
Section One



Section Two



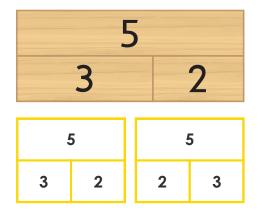
Section Three





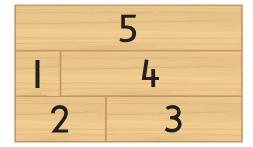


į	5		5
4 1		1	4







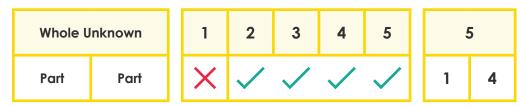


		Addition	Subtraction
5		5 + 0 = 5	5 - 5 = 0
0	5	0 + 5 = 5	5 - 0 = 5
	5	1 + 4 = 5	5 - 1 = 5
1	4	4 + 1 = 5	5 - 4 = 1
	5	2 + 3 = 5	5 - 2 = 3
2	3	3 + 2 = 5	5 - 3 = 2



Part-Part-Whole / Static

On his worksheet, Li got one question wrong and 4 questions correct. How many questions were on Li's worksheet?



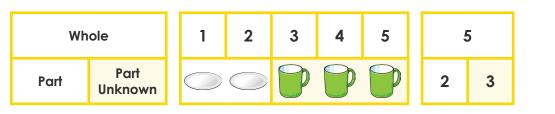


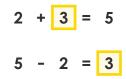
There were 5 questions on Li's worksheet.

Question 2

Part-Part-Whole / Static

There were 2 plates in the sink that needed to be washed and some cups. Altogether 5 things needed to be washed. How many cups needed washing?



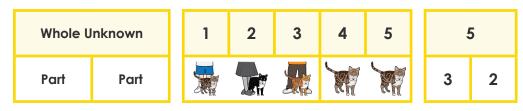


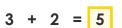
Three cups needed washing.

Question 3

Part-Part-Whole / Active

Jane has pet cats. There were 3 children at Jane's house. Each child picked up one cat. This left 2 cats without anyone to cuddle them. *How many cats were there at Jane's house?*



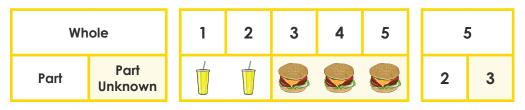


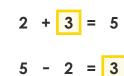
There were 5 cats at Jane's house.

Question 4

Part-Part-Whole / Static

At the fast food drive-through there were 2 drinks and some burgers on the menu page. There were 5 items listed on the menu. *How many burgers were listed?*

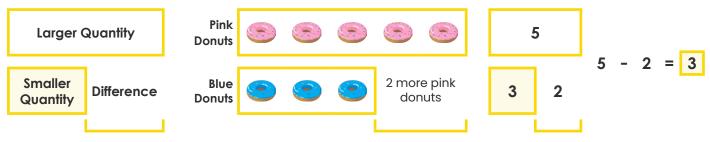




There were 3 burgers listed.

Comparison / Static

There were some blue donuts and 5 pink donuts. There were 2 more pink donuts than blue. How many blue donuts were there?

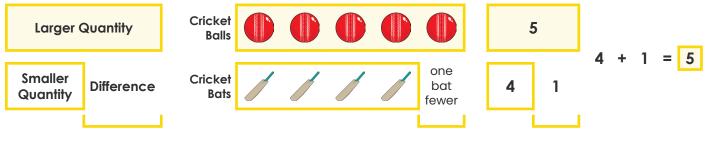


There were 3 blue donuts.

Question 6

Comparison / Active

The sport teacher was matching one ball to every bat when tidying up. Four bats had a matching ball. There was one bat fewer than balls. *How many balls were there?*



There were 5 balls.

Question 7

Part-Part-Whole / Active

Chocolate bites come in bags of 5. Josh had one bag in the fridge. After eating two each day, for two days how many were left in the fridge?

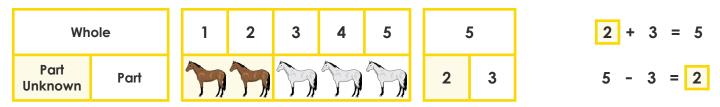


There was I chocolate bite left in the fridge.

Question 8

Part-Part-Whole / Static

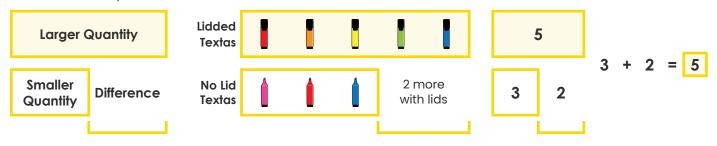
Aisha had 5 toy ponies. Some were brown. The other 3 were white. How many brown ponies did Aisha have?



Aisha had 2 brown ponies.

Comparison / Static

Kate was putting away her textas. Three had no lids so were dried out. Kate had two more textas with lids than without. *How many textas did Kate have still with lids?*

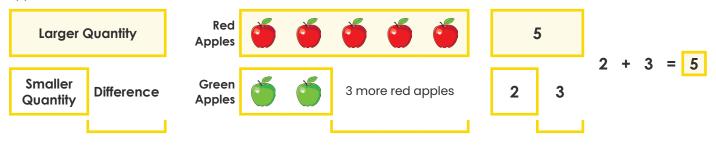


Kate still has 5 textas with lids.

Question 10

Comparison / Static

In the fruit bowl there were some red apples and 2 green. There was three more red than green. *How many red apples were there?*

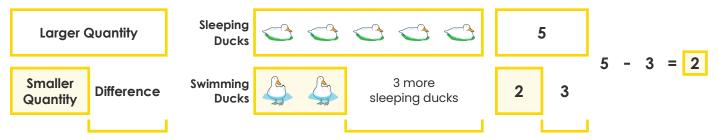


There were 5 red apples.

Question 11

Comparison / Static

There were some ducks swimming on the lake. There were 5 ducks sleeping on the grass next to the lake. There were 3 more sleeping ducks than swimming ducks. *How many were sleeping on the grass?*

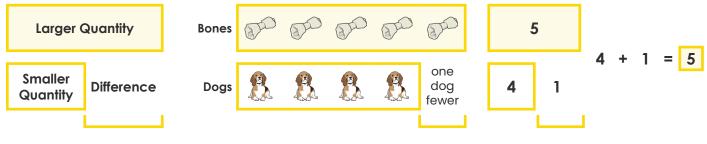


There were 2 ducks swimming on the lake.

Question 12

Comparison / Active

There were some bones and 4 dogs. Each dog picked up one bone to eat. There was one dog fewer than there were bones. *How many bones were there?*



There were 5 bones.



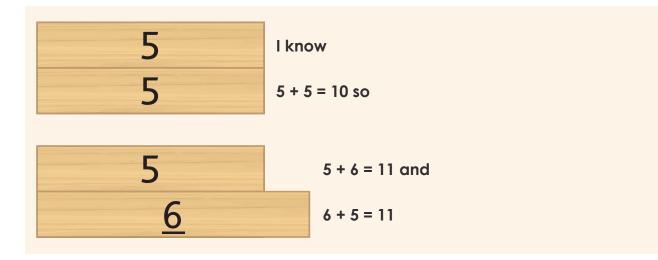


Doubling and Halving to 10 Near Double: Strategy Concept (core)

Double Bonds			Near Double: One More
	l know	1	1 + 2 = 3 and
	1 + 1 = 2 so	2	2 + 1 = 3
2	l know	2	2 + 3 = 5 and
2	2 + 2 = 4 so	3	3 + 2 = 5

3	l know	3	3 + 4 = 7 and
3	3 + 3 = 6 so	4	4 + 3 = 7

4	l know	4	4 + 5 = 9 and
4	4 + 4 = 8 so	5	5 + 4 = 9







Doubling and Halving to 10

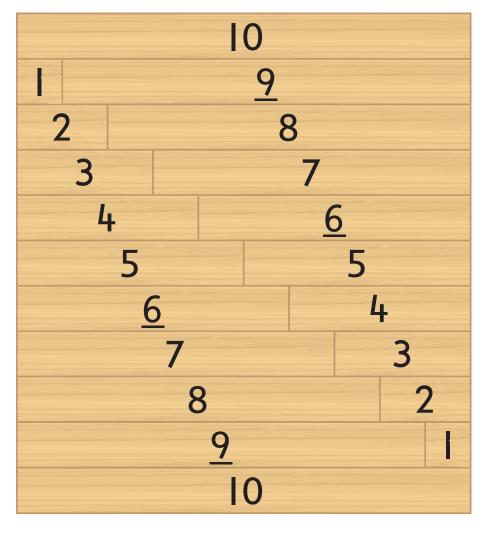
Near Double: Strategy Concept (a little harder)

Double Bonds		Near Double: One Less
	I know 1 + 1 = 2 so	1 + 0 = 1 and 1 + 1 - 1 = 1
2 2	I know 2 2 + 2 = 4 so 1	2 + 1 = 3 and 2 + 2 - 1 = 3
3	I know 3	3 + 2 = 5 and
3	3 + 3 = 6 so 2	3 + 3 - 1 = 5
4	l know 4	4 + 3 = 7 and
4	4 + 4 = 8 so 3	4 + 4 - 1 = 7
5	I know 5	5 + 4 = 9 and
5	5 + 5 = 10 so 4	5 + 5 - 1 = 9

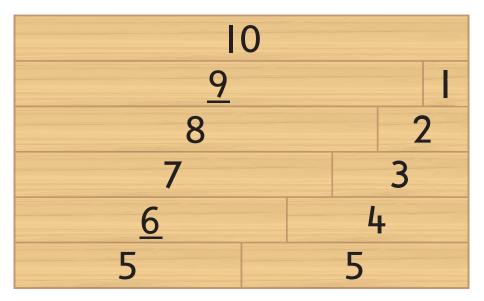




Section One



Section Two

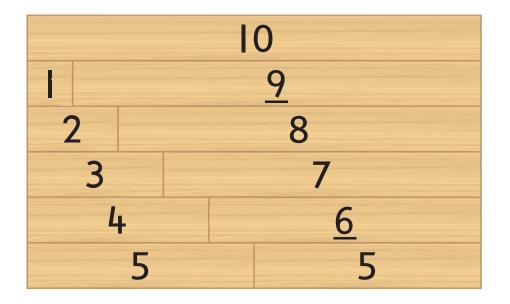


Section Three

10	10	10
10	10 0	0 10
10	10	10
<u>9</u> I	9 1	1 9
10	10	10
8 2	8 2	2 8
10	10	10
7 3	7 3	3 7
10	10	10
<u>6</u> 4	6 4	4 6
10	10	
5 5		



Bonds of 10 Equation: Building



Use the bond wall to fill in the **part-part-whole** diagrams.

		Addition	Subtraction
10		10 + 0 = 10	10 - 0 = 10
0	10	0 + 10 = 10	10 - 10 = 0

10		1 + 9 = 10	10 - 1 = 9	
1	9	9 + 1 = 10	10 - 9 = 1	

10		2 + 8 = 10	10 - 2 = 8
2	8	8 + 2 = 10	10 - 8 = 2

Use the bond wall to fill in the **part-part-whole** diagrams.

Write related addition and subtraction equations.

		Addition	Subtraction
1	0	3 + 7 = 10	10 - 3 = 7
3	7	7 + 3 = 10	10 - 7 = 3

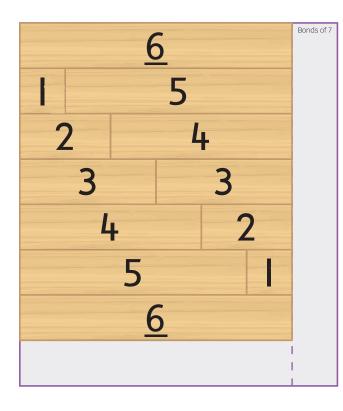
10		4 + 6 = 10	10 - 4 = 6
4	6	6 + 4 = 10	10 - 4 = 6

10		5 + 5 = 10	10 - 5 = 5
5	5		

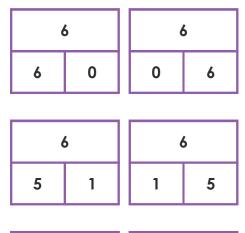




Bonds of 6 - Section 1



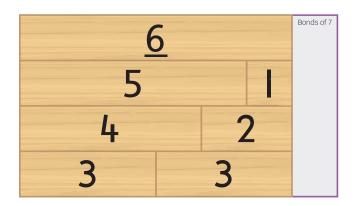
Bonds of 6 - Section 3



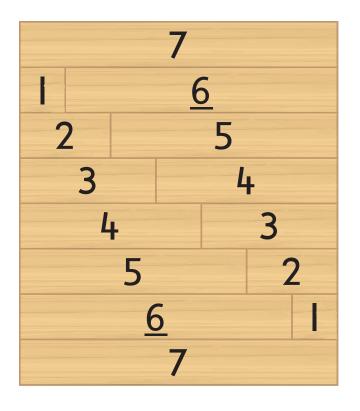
6			6
4 2		2	4

6		
3	3	

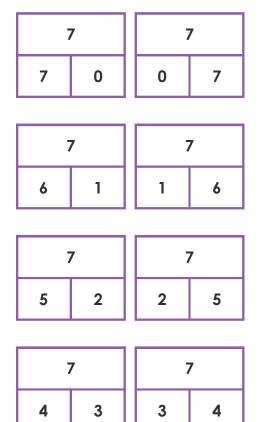
Bonds of 6 - Section 2



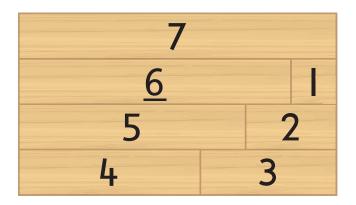
Bonds of 7 - Section 1



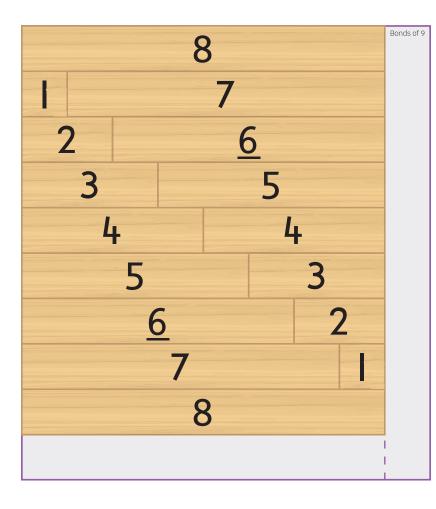
Bonds of 7 - Section 3



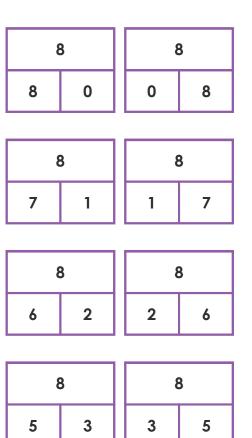
Bonds of 7 - Section 2



Bonds of 8 - Section 1

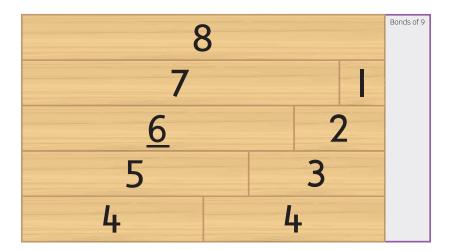


Bonds of 8 - Section 3



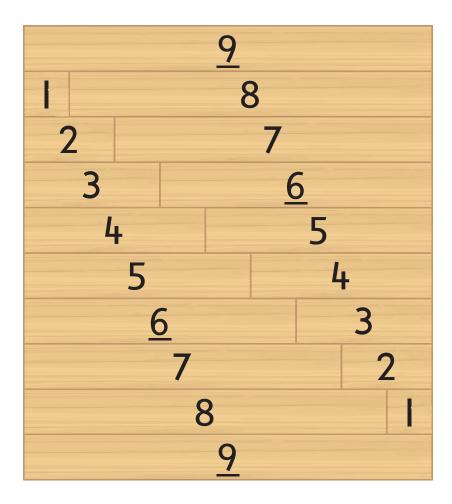
8		
4	4	

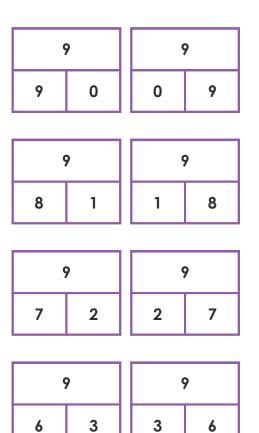
Bonds of 8 - Section 2



Bonds of 9 - Section 1

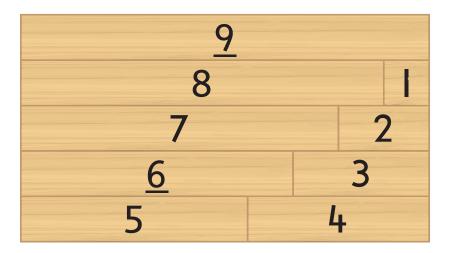
Bonds of 9 - Section 3





ç	7		9
5	4	4	5

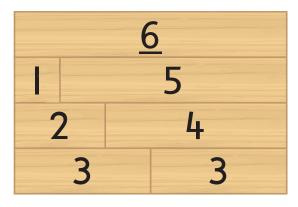
Bonds of 9 - Section 2





Bonds of 6, 7, 8, 9 Equation: Building

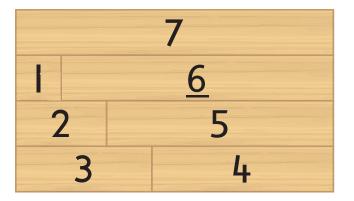
Bonds of 6



Use the bond wall to fill in the **part-part-whole** diagrams.

part-part-whole diagrams.		Addition	Subtraction
	6	6 + 0 = 6	6 - 0 = 6
0	6	0 + 6 = 6	6 - 6 = 0
	6	1 + 5 = 6	6 - 1 = 5
1	5	5 + 1 = 6	6 - 5 = 1
	6	2 + 4 = 6	6 - 2 = 4
2	4	4 + 2 = 6	6 - 4 = 2
6		3 + 3 = 6	6 - 3 = 3
3	3		

Bonds of 7



Use the bond wall to fill in the **part-part-whole** diagrams.

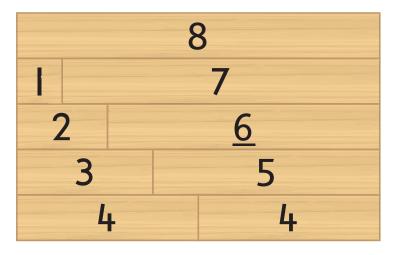
part-part-wnole alagrams.		Addition	Subtraction
7		7 + 0 = 7	7 - 0 = 7
0	7	0 + 7 = 7	7 - 7 = 0

7		1 + 6 = 7	7 - 1 = 6
1	6	6 + 1 = 7	7 - 6 = 1

7		2 + 5 = 7	7 - 2 = 5
2	5	5 + 2 = 7	7 - 5 = 2

	7	3 + 4 = 7	7 - 3 = 4	
3	4	4 + 3 = 7	7 - 4 = 3	

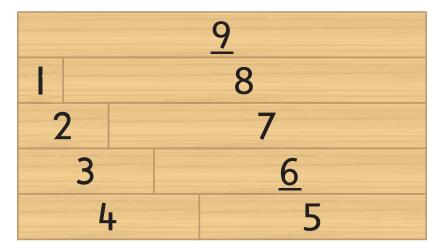
Bonds of 8



Use the bond wall to fill in the **part-part-whole** diagrams.

part-part-whole d	liagrams.	Addition	Subtraction	
	8	8 + 0 = 8	8 - 0 = 8	
0	8	0 + 8 = 8	8 - 8 = 0	
	8	1 + 7 = 8	8 - 1 = 7	
1	7	7 + 1 = 8	8 - 7 = 1	
-	8	2 + 6 = 8	8 - 2 = 6	
2	6	6 + 2 = 8	8 - 6 = 2	
-	8	3 + 5 = 8	8 - 3 = 5	
3 5		5 + 3 = 8	8 - 5 = 3	
	8	4 + 4 = 8	8 - 4 = 4	
4	4			

Bonds of 9



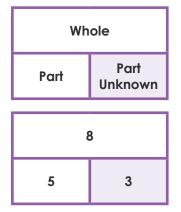
Use the bond wall to fill in the **part-part-whole** diagrams.

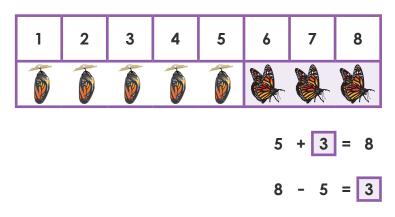
part-part-whole diagrams.		Addition	Subtraction
	9	9 + 0 = 9	9 - 0 = 9
0	9	0 + 9 = 9	9 - 9 = 0
	9	1 + 8 = 9	9 - 1 = 8
1	8	8 + 1 = 9	9 - 8 = 1
	9	2 + 7 = 9	9 - 2 = 7
2	7	7 + 2 = 9	9 - 7 = 2
	9	3 + 6 = 9	9 - 3 = 6
3	6	6 + 3 = 9	9 - 6 = 3
	9	4 + 5 = 9	9 - 4 = 5
4	5	5 + 4 = 9	9 - 5 = 4



Part-Part-Whole / Active

John's class kept caterpillars. Before going home he carefully counted the cocoons. There were 8. When he arrived at school the next morning some had turned into butterflies and flown away. He counted 5 remaining cocoons. *How many butterflies flew away?*





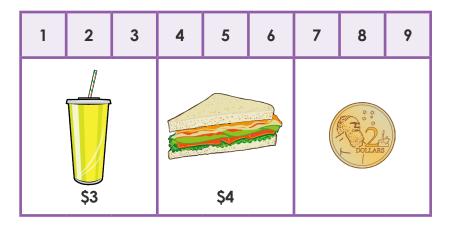
Three butterflies flew away.

Question 2

Part-Part-Whole / Active

Grace had some pocket money in her wallet. She went to the shops to buy lunch. She bought a \$3 milkshake and a \$4 sandwich for lunch. After eating her lunch she looked in her wallet and saw she only had \$2 left. *How much was in her wallet to start with?*





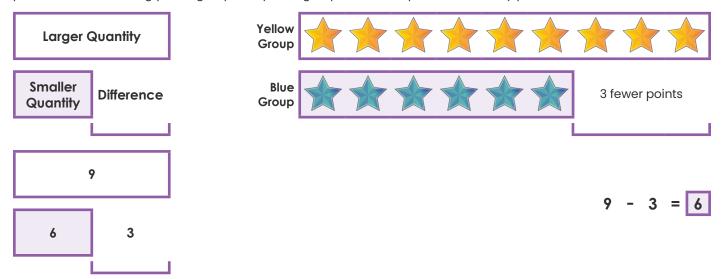
9 3 4 2



There was \$9 in her wallet to start with.

Comparison / Static

When students in Miss Star's class followed instructions she gave them group points. The blue group had 3 fewer points than the winning yellow group. The yellow group won with 9 points. *How many points did the blue team score?*



The blue team scored 6 points.

Question 4

Part-Part-Whole / Active

Chung's Dad gave him some packets of collector cards. Each packet had one card inside. He had opened 7 packets and had 3 packets still to open. *How many packets did his dad give him?*

Whole Unknown						
Part Part						
1	0					
7 3						

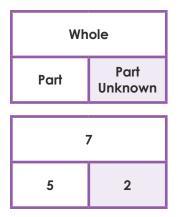
His dad gave him 10 packets.

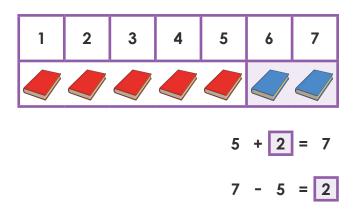




Part-Part-Whole / Static

Yassmine is at her local library. Each person is allowed to borrow 7 books. She has 5 books on loan at home. How many can she borrow today?



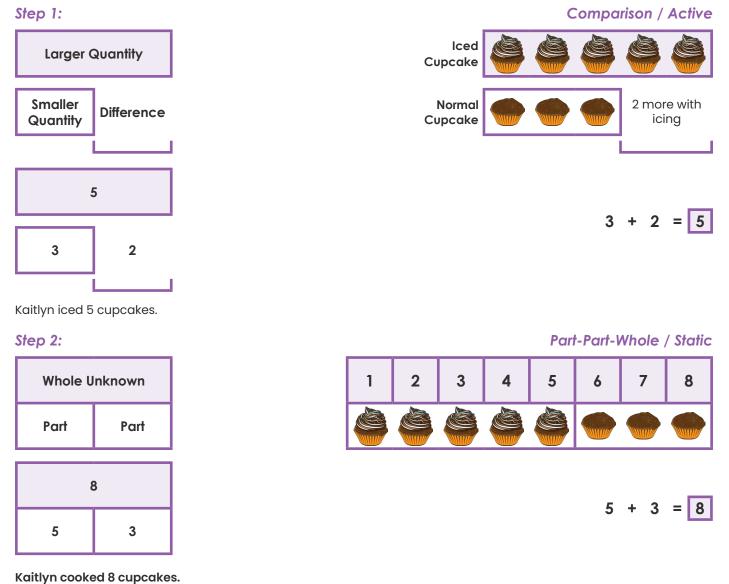


Yassmine can borrow 2 books today.

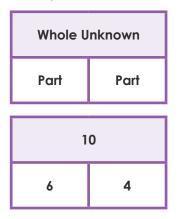
Question 6

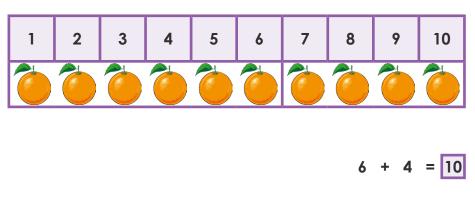
Comparison / Active and Part-Part-Whole / Static

Kaitlyn cooked cupcakes. She iced some but ran out of icing. There were 3 cupcakes left without icing. She counted the iced cupcakes and found she had two more with icing than those without. *How many cupcakes did she cook?*



There was a bag full of oranges. Six were squeezed to make juice. This left 4 oranges in the bag. How many were in the bag to start with?





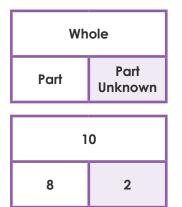
There were 10 oranges in the bag to start with.

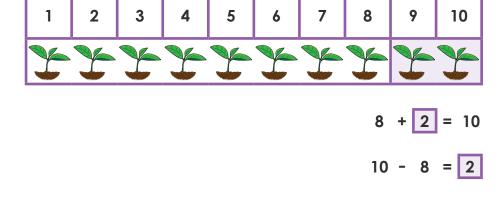
Question 8

Part-Part-Whole / Active

Part-Part-Whole / Active

Abdalla planted 10 seedlings in his garden but it rained overnight and the snails ate some. The next morning he only had 8 seedlings left. How many seedlings did the snails eat?





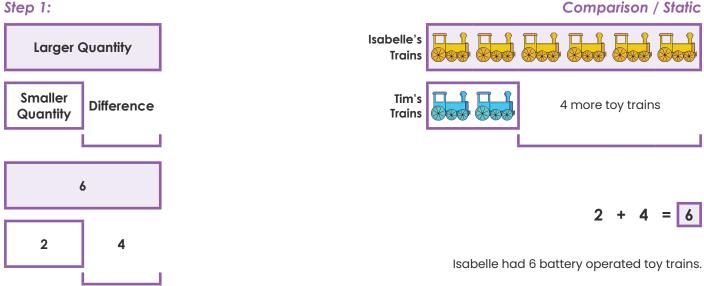
The snails ate 2 seedlings.

Question 9

Comparison / Static and Part-Part-Whole / Active

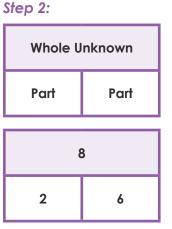
Tim had 2 battery operated toy trains. His friend Isabelle had 4 more than him. Tim went to play at Isabelle's house and took his trains. How many trains did they have to play with together?

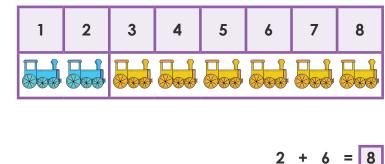
Step 1:





Part-Part-Whole / Active



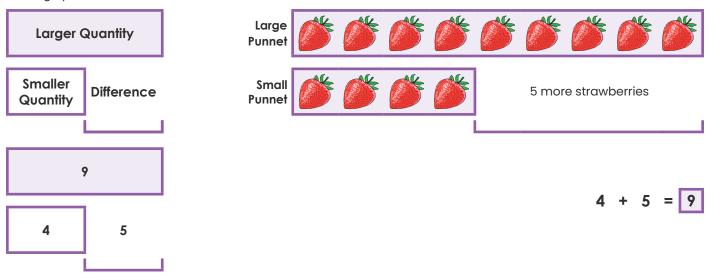


Tim and Isabelle had 8 trains to play with together.

Question 10

Comparison / Active

Louisa's mum bought two punnets of strawberries. One large punnet and one small one. The large one had 5 more strawberries than the small one. Louisa ate the whole small punnet of 4 strawberries. *How many strawberries are in the large punnet?*

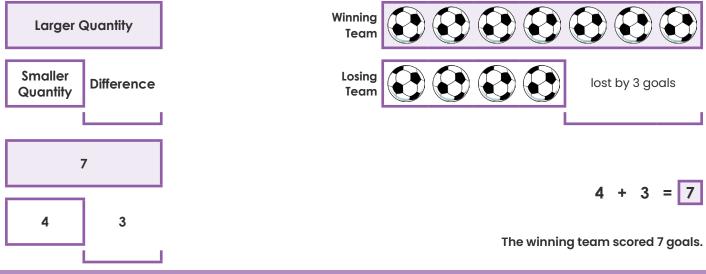


There were 9 strawberries in the large punnet.

Question 11

Comparison / Active

During sport the class was split into two teams and played each other in a game of football. The losing team scored 4 goals and lost by 3. *How many goals did the winning team score?*



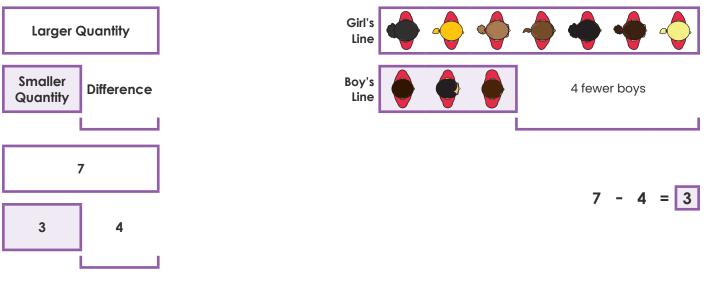
Comparison / Static

Question 12

Comparison / Static and Part-Part-Whole / Static

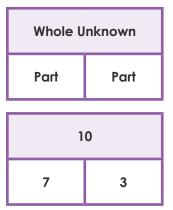
After lunch the children from Miss Tayla's room line up in two lines. One line of girls and one line of boys, standing next to each other in pairs. The boys' line has 4 fewer children than the girls' line which has 7 girls. *How many children are in Miss Tayla's class?*



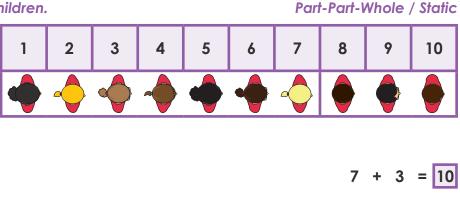


There are 3 boys in Miss Tayla's class.





There are 10 children in Miss Tayla's class.





46 Ten Plus Bonds of 20 Equation: Building

		Addition Subtraction						
2	20	2	0	11 + 9 = 20 19 + 1 = 20 20 - 11 = 9 20 - 19 = 1				
11	9	19	1	9 + 11 = 20	1 + 19 = 20	20 - 9 = 11	20 - 1 = 19	

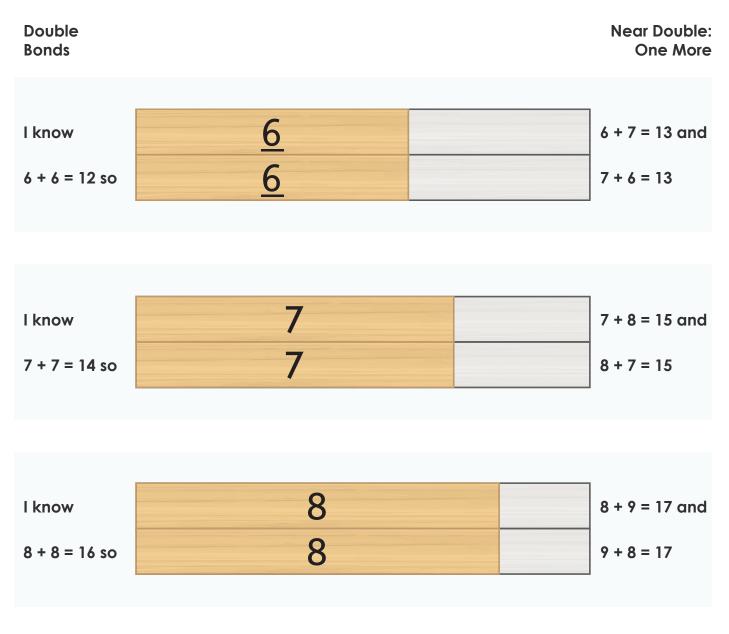
2	0	20		20 14 + 6 = 20 16 + 4 = 20		20 - 14 = 6	20 - 16 = 4
14	6	16	4	6 + 4 = 20	4 + 16 = 20	20 - 6 = 14	20 - 4 = 16

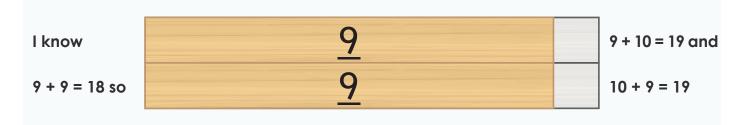
2	0	2	0	12 + 8 = 20	18 + 2 = 20	20 - 12 = 8	20 - 18 = 2
12	8	18	2	8 + 12 = 20	2 + 18 = 20	20 - 8 = 12	20 - 2 = 18

2	0	2	0	13 + 7 = 20	17 + 3 = 20	20 - 13 = 7	20 - 17 = 3
13	7	17	3	7 + 13 = 20	3 + 17 = 20	20 - 7 = 13	20 - 3 = 17

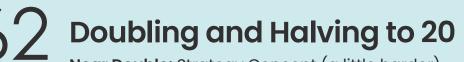
2	20	15 + 5 = 20	20 - 15 = 5
15	5	5 + 15 = 20	20 - 5 = 15



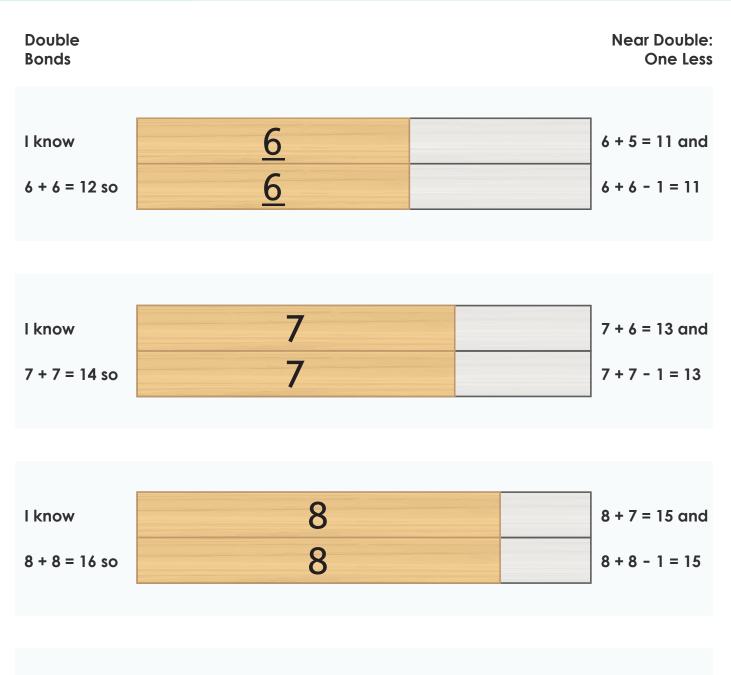








Near Double: Strategy Concept (a little harder)







66 Bonds of 11 to 20 Equation: Building

Set A		Addition Subtraction					Addition	Subtraction
11		6 + 5 = 11	11 - 6 = 5		1	3	4 + 9 = 13	13 - 4 = 9
6	5	5 + 6 = 11	11 - 5 = 6		4	9	9 + 4 = 13	13 - 9 = 4

1	1	9 + 2 = 11	11 - 9 = 2	1	4	5 + 9 = 14	14 - 5 = 9
9	2	2 + 9 = 11	11 - 2 = 9	5	9	9 + 5 = 14	14 - 9 = 5

1	2	6 + 6 = 12 12 - 6 = 6 15		6 + 6 = 12 12 - 6 = 6		5	8 + 7 = 15	15 - 8 = 7
6	6			8	7	7 + 8 = 15	15 - 7 = 8	

1	2	4 + 8 = 12	12 - 4 = 8	1	6	8 + 8 = 16	16 - 8 = 8
4	8	8 + 4 = 12	12 - 8 = 4	8	8		

1	3	5 + 8 = 13	13 - 5 = 8	17		8 + 9 = 17	17 - 8 = 9
5	8	8 + 5 = 13	13 - 8 = 5	8	9	9 + 8 = 17	17 - 9 = 8

Set B		B	Addition Subtraction					Addition	Subtraction
	1	5	6 + 9 = 15	15 - 6 = 9		12		3 + 9 = 12	12 - 3 = 9
	6	9	9 + 6 = 15	15 - 9 = 6		3	9	9 + 3 = 12	12 - 9 = 3

1	2	7 + 5 = 12	12 - 7 = 5	13		6 + 7 = 13	13 - 6 = 7
7	5	5 + 7 = 12	12 - 5 = 7	6	7	7 + 6 = 13	13 - 7 = 6

F

1	4	6 + 8 = 14	14 - 6 = 8	16		9 + 7 = 16	16 - 9 = 7
6	8	8 + 6 = 14	14 - 8 = 6	9	7	7 + 9 = 16	16 - 7 = 9

1	1	8 + 3 = 11	11 - 8 = 3	1	8	9 + 9 = 18	18 - 9 = 9
8	3	3 + 8 = 11	11 - 3 = 8	9	9		

1	4	7 + 7 = 14	14 - 7 = 7	11		7 + 4 = 11	11 - 7 = 4
7	7			7	4	4 + 7 = 11	11 - 4 = 7

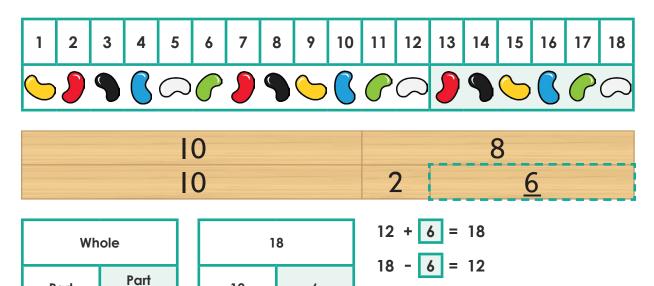


18 - 12 = 6

Question 1

Part-Part-Whole / Active

Kyle ate some lollies from the packet. There were 12 left. Before Kyle started eating there were 18 lollies. *How many did he eat?*



6

12

Kyle ate 6 lollies.

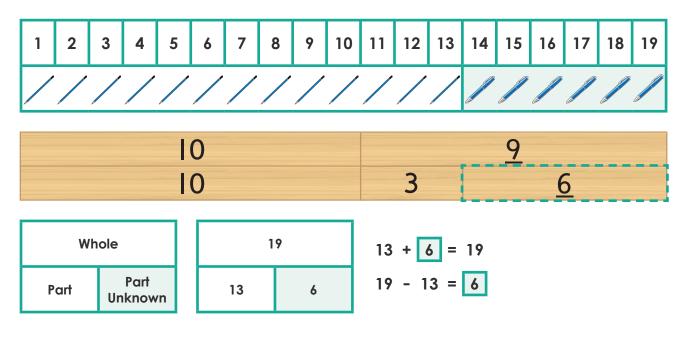
Unknown

Part

Question 2

Part-Part-Whole / Static

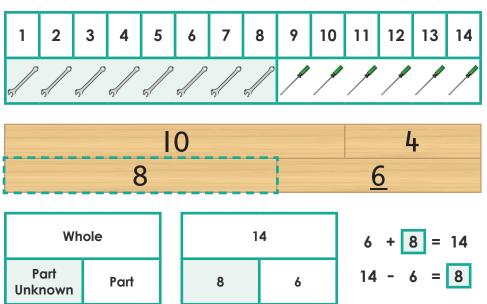
In a pencil case there were 13 pencils and the rest were pens. Altogether there were 19 items in the pencil case. How many were pens?



There were 6 pens.

Part-Part-Whole / Static

Dad had some spanners in his toolbox and 6 screwdrivers. This made 14 tools altogether. *How many screwdrivers did he have?*

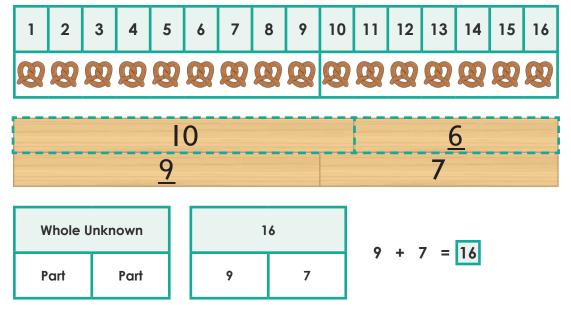


Dad had 8 spanners.

Question 4

Part-Part-Whole / Active

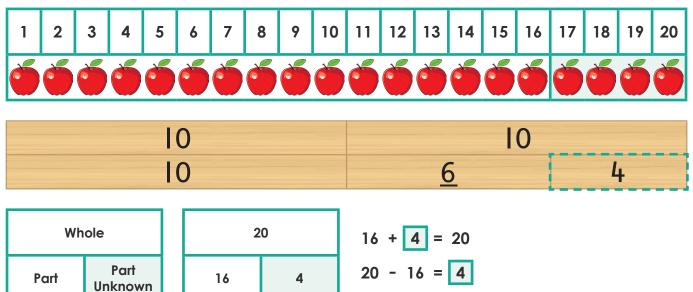
Mum bought a packet of pretzels for her children to eat after school. After the children had eaten 7 there were 9 left in the packet. *How many were there in the packet to start?*



There were 16 pretzels in the packet to start with.

Part-Part-Whole /Active

There were 20 apples on an apple tree. The farmer picked the ripest. This left 16 on the tree. How many did the farmer pick?

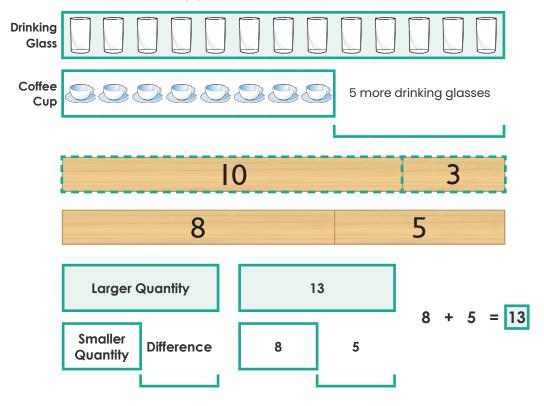


The farmer picked 4 apples.

Question 6

Comparison / Static

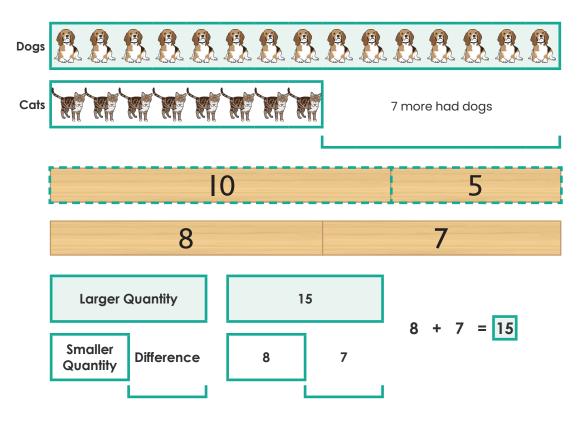
In the dishwasher there were some drinking glasses and 8 coffee cups. There were 5 more drinking glasses than coffee cups. *How many drinking glasses were there?*



There were 13 drinking glasses.

Comparison / Static

In a class 8 students had pet cats. Seven more than this had dogs. How many of them had pet dogs?



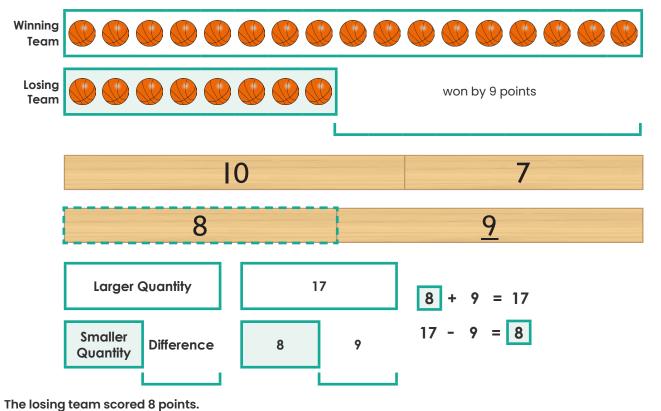
Fifteen children had pet dogs.

Question 8

Comparison / Active

In a basketball game the winning team scored 17 points. They won by 9 points.

How many points did the losing team score?



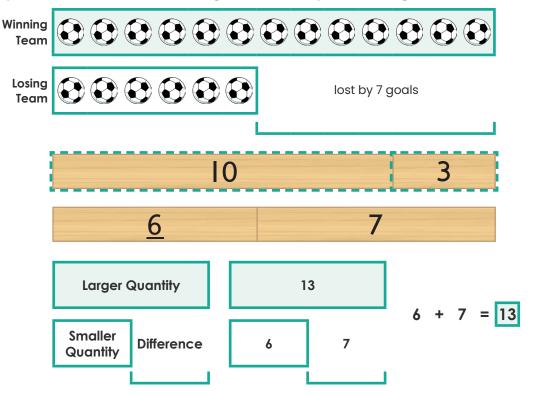
The local g team sector of point

Comparison / Active and Part-Part-Whole / Active

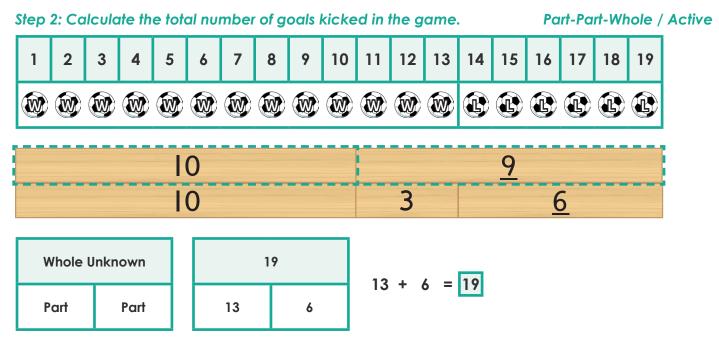
In a soccer game the losing team scored 6 goals. They lost by 7 goals. How many goals were kicked in the game?

Step 1: Calculate the number of goals scored by the winning team.

Comparison / Active



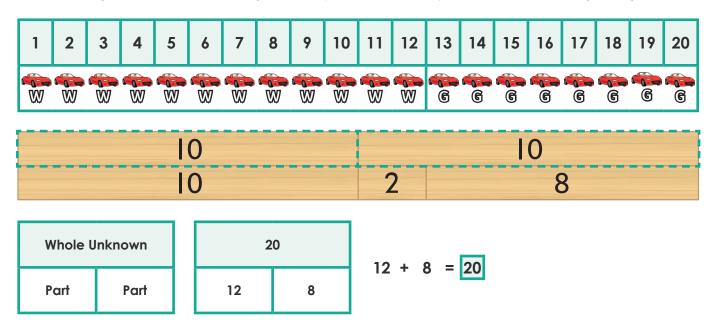
The winning team scored 13 goals.



There was a total of 19 goals kicked during the game.

Part-Part-Whole / Active

In the car park there was a long queue of cars waiting for a green traffic light. Eight cars got through the green light before it changed. This left 12 cars waiting. *How many cars were in the queue of cars before the green light?*

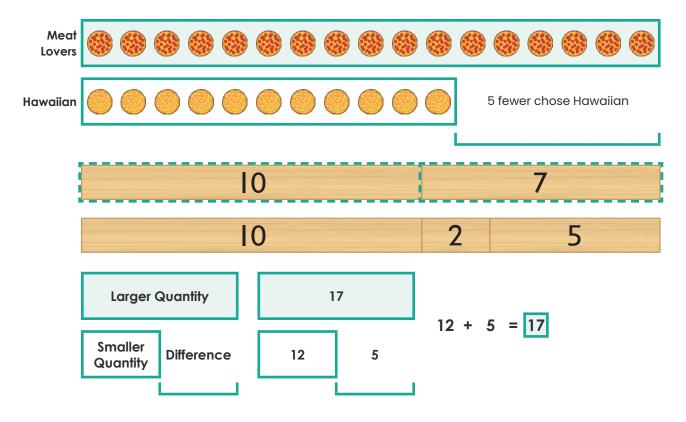


Twenty cars were in the car park before the green light.

Question 11

Comparison / Static

When ordering pizza, 12 people chose Hawaiian. This was 5 fewer than the number of people who chose Meat Lovers. How many chose Meat Lovers?



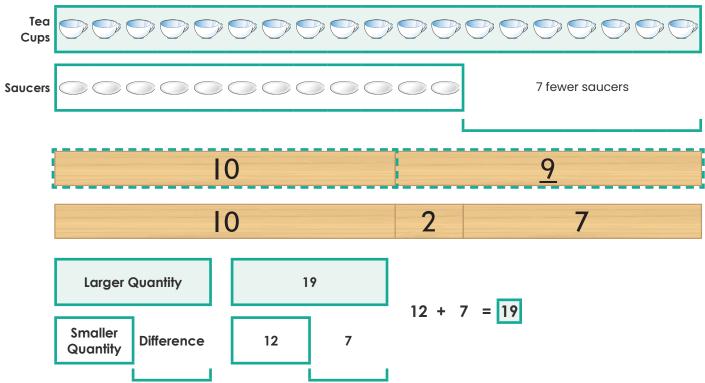
17 people chose Meat Lovers.

Comparison / Active

Question 12

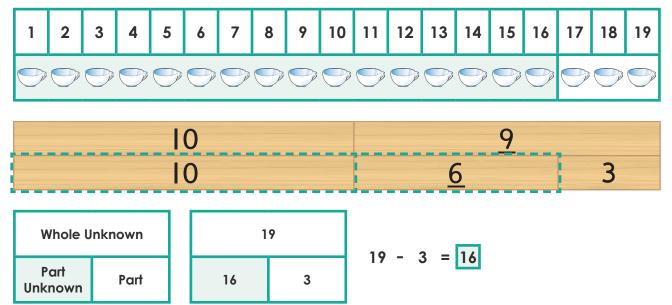
Comparison / Active and Part-Part-Whole / Active

Melissa collected tea cups and saucers. When she matched the cups and saucers she found she had 7 fewer saucers. There were 12 saucers. Unfortunately whilst she was matching them she broke 3 tea cups. How many tea cups did she end up with?



Melissa had 19 tea cups.

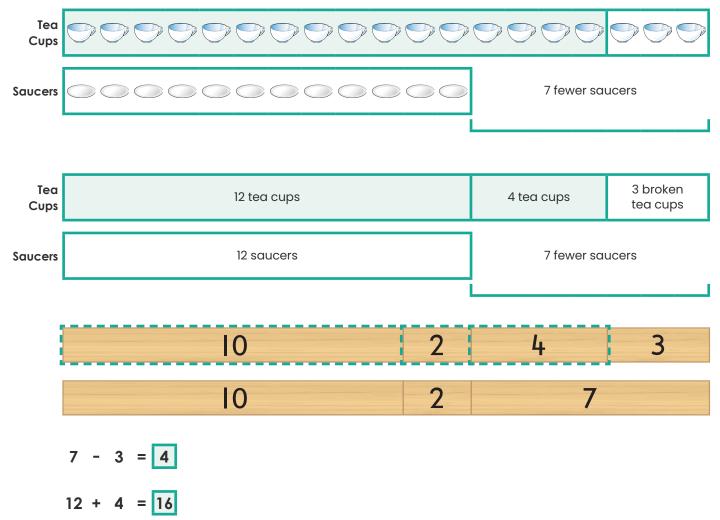
Step 2: Calculate the number of remaining tea cups after 3 were broken. Part-Part-Whole / Active



Melissa had 16 tea cups remaining after 3 had been broken.

Step 1: Calculate the number of tea cups.

Alternate Solution



There were 16 tea cups remaining after 3 had been broken.

