

Question 1

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?

Whole	
Part	Part Unknown

8	
5	3

1	2	3	4	5	6	7	8
							

$$5 + 3 = 8$$

$$8 - 5 = 3$$

Three butterflies flew away.


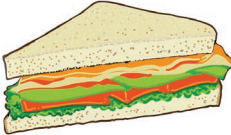

Question 2

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?*

Whole Unknown		
Part	Part	Part

9		
3	4	2

1	2	3	4	5	6	7	8	9
								
\$3			\$4					



$$3 + 4 + 2 = 9$$

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

Question 3

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?*

Larger Quantity	Yellow Group		
Smaller Quantity	Blue Group		3 fewer points
9			
6	3		


$9 - 3 = 6$

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		1	2	3	4	5	6	7	8	9	10
Part	Part										
10											
7	3										

$7 + 3 = 10$

His dad gave him 10 packets.

Question 5








Part-Part-Whole / Static

Yasmine 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?

Whole	
Part	Part Unknown

7	
5	2

1	2	3	4	5	6	7
						

$$5 + 2 = 7$$

$$7 - 5 = 2$$

Yasmine 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?

Step 1:

Comparison / Active

Larger Quantity

Smaller Quantity	Difference
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5

3	2
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Iced Cupcake					
Normal Cupcake				2 more with icing	

$$3 + 2 = 5$$

Kaitlyn iced 5 cupcakes.

Step 2:

Part-Part-Whole / Static

Whole Unknown	
Part	Part

8	
5	3

1	2	3	4	5	6	7	8
							

$$5 + 3 = 8$$

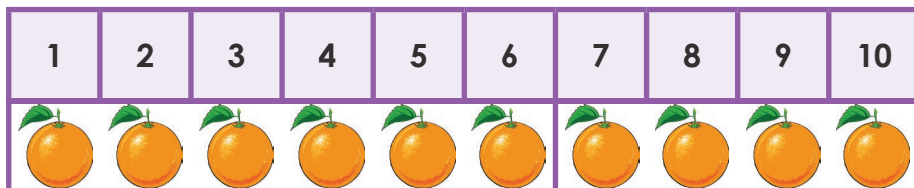
Kaitlyn cooked 8 cupcakes.

Question 7

Part-Part-Whole / Active

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?*

Whole Unknown	
Part	Part



10	
6	4

$$6 + 4 = 10$$

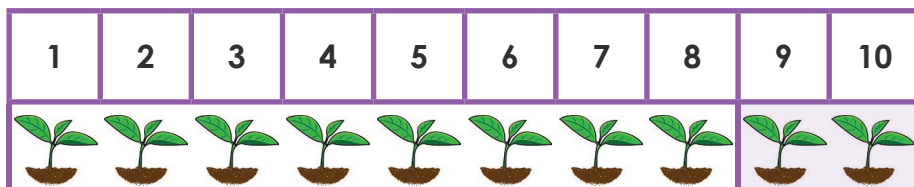
There were 10 oranges in the bag to start with.

Question 8

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?*

Whole	
Part	Part Unknown



10	
8	2

$$8 + 2 = 10$$

$$10 - 8 = 2$$

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:

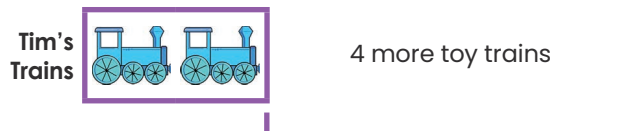
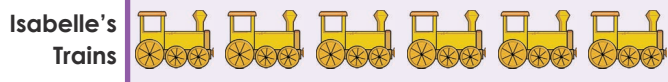
Comparison / Static

Larger Quantity

Smaller Quantity	Difference
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6

2	4
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



$$2 + 4 = 6$$

Isabelle had 6 battery operated toy trains.

Step 2:

Part-Part-Whole / Active

Whole Unknown	
Part	Part

1	2	3	4	5	6	7	8
							

8	
2	6

$$2 + 6 = 8$$


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?*

Larger Quantity

Large Punnet	
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Smaller Quantity	Difference
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Small Punnet		5 more strawberries
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9

$$4 + 5 = 9$$

4	5
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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?*

Larger Quantity

Winning Team	
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Smaller Quantity	Difference
------------------	------------

Losing Team		lost by 3 goals
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7

$$4 + 3 = 7$$

4	3
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The winning team scored 7 goals.

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?*

Step 1: Calculate the number of boys.

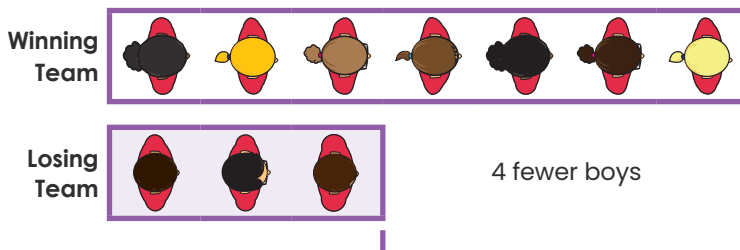
Comparison / Static

Larger Quantity

Smaller Quantity	Difference
------------------	------------

7

3	4
---	---



$$7 - 4 = 3$$

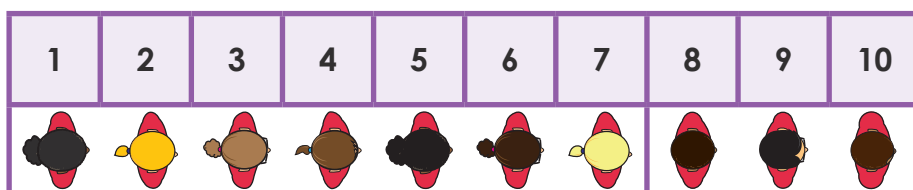
There are 3 boys in Miss Tayla's class.

Step 2: Calculate the number of children.

Part-Part-Whole / Static

Whole Unknown	
Part	Part

10	
7	3



$$7 + 3 = 10$$

There are 10 children in Miss Tayla's class.