

Addition and Subtraction

Workbook



Home Learning Maths Workbook

Programme of Study – Addition and Subtraction

Statutory Requirements	Worksheet	Page no.	Notes
Read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs.	Read and interpret mathematical statements involving addition.	3	
	Writing mathematical statements using plus, minus and equals.	4-5	
Represent and use number bonds and related subtraction facts within 20.	Mixed number bonds to 10 on robots worksheet.	6-8	
	Mixed number bonds to 20 on robots worksheet.	9-10	
	Finding and practising number bonds to 10.	11	
Add and subtract one digit and two digit numbers to 20 including zero.	Dinosaur addition sheet	12	
	Adding to 20 with a number line pack	13-15	
	Green Bottles Subtraction	16	
	Elmer addition to 20 colour by numbers sheet	17	
	Elmer subtraction from 20 colour by numbers sheet	18	
Solve one- step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems, such as $7 = ? - 9$	Missing number calculations with a number line activity sheet	19-21	
	Addition and subtraction to 20 with a number line activity sheet	22-24	
	Building bricks addition worksheet	25-27	

Read and Interpret Mathematical Statements Involving Addition

Look carefully at the sums below. Are they right or wrong? Use dots to check and then mark the sums with a tick or a cross. An example has been done for you. If you find any mistakes, correct them!

Example:

$3 + 2 = 6$



Answer: Wrong! 5 is correct.

$2 + 5 = 7$



Answer: Correct!

Questions:

$2 + 1 = 3$

Answer:

$4 + 2 = 5$

Answer:

$1 + 3 = 5$

Answer:

$6 + 2 = 8$

Answer:

$4 + 5 = 7$

Answer:

$2 + 2 + 1 = 5$

Answer:

$3 + 4 + 1 = 10$

Answer:

$8 + 3 = 11$

Answer:

$5 = 2 + 3$

Answer:

$6 + 7 = 12$

Answer:

Writing Mathematical Statements Using Plus, Minus and Equals

Count the objects in the following pictures to turn them into numbers and create mathematical statements in the row underneath.

Example:

	+		=	
3	+	2	=	5

Questions:

1

	+		=	
	+		=	

2

	+		=	
	+		=	

3

	+		=	
	+		=	

4

	-		=	
	-		=	

5

	-		=	
	-		=	

Writing Mathematical Statements Using Plus, Minus and Equals

Count the objects in the following pictures to turn them into numbers and create mathematical statements in the row underneath.

Example:

	?		=	
2		1	=	1

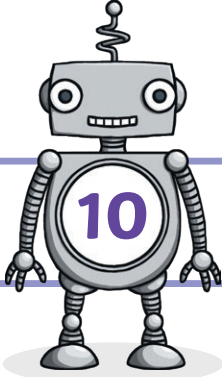
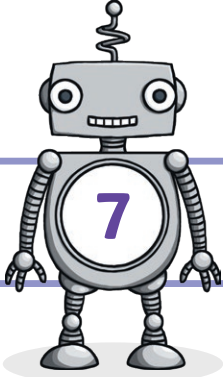
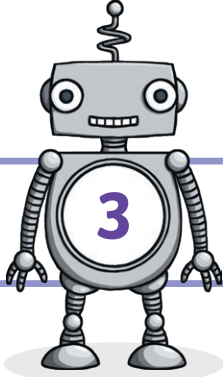
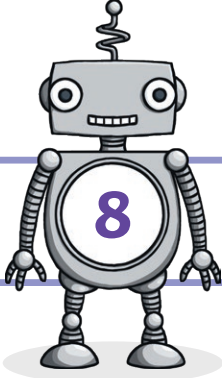
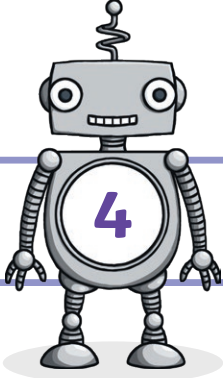
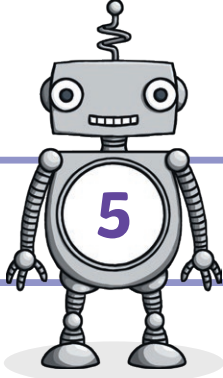
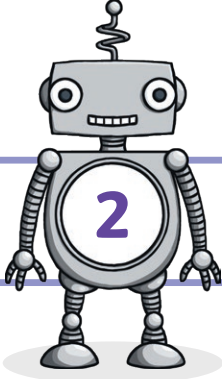
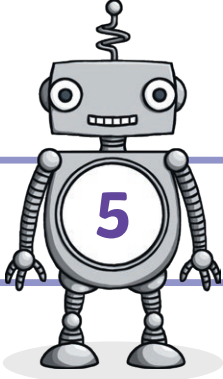
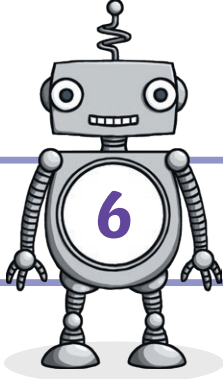
Questions:

1		?		=	
				=	
2		?		=	
				=	
3		?		=	
				=	
4		?		=	
				=	
5		?		=	
				=	

Mixed Number Bonds to 10 on Robots

Worksheet 1

Can you find the missing number bond to make the number in the robot's tummy?

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

Mixed Number Bonds to 10 on Robots

Worksheet 2

Can you find the missing number bond to make the number in the robot's tummy?

7

9

3

8

5

6

3

5

1

3

6

7

5

8

6

9

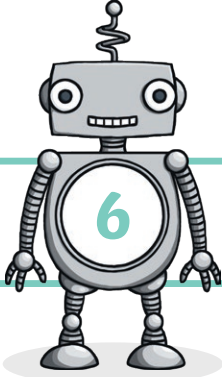
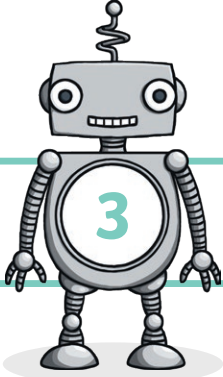
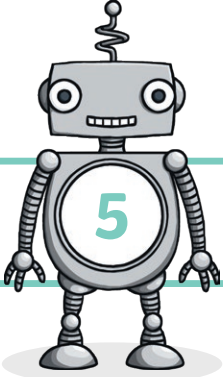
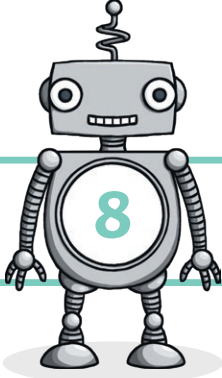
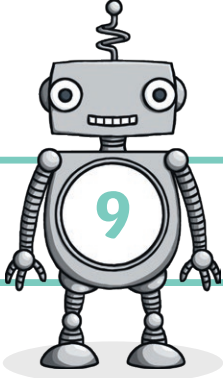
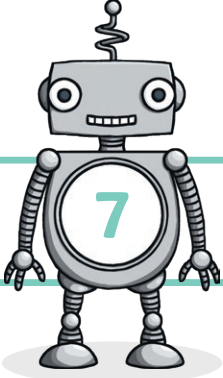
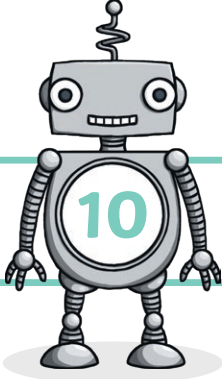
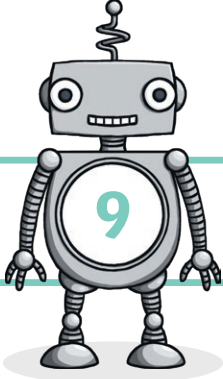
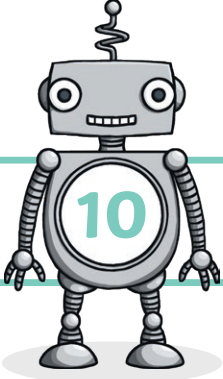
8

10

Mixed Number Bonds to 10 on Robots

Worksheet 3

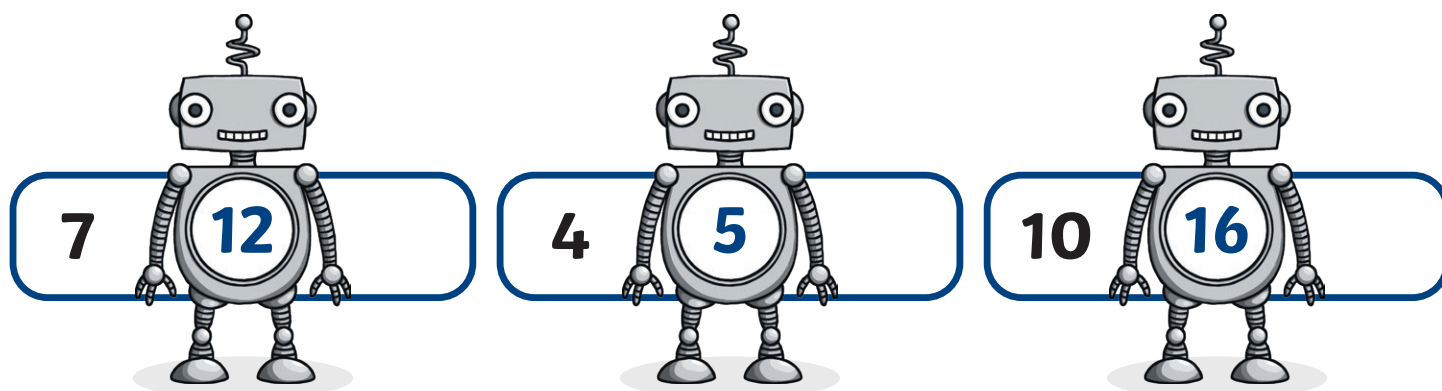
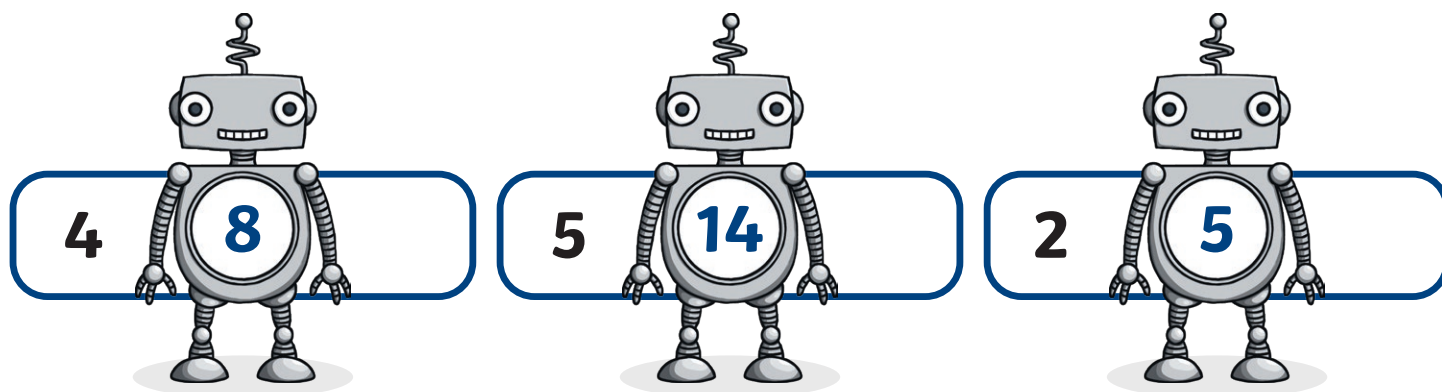
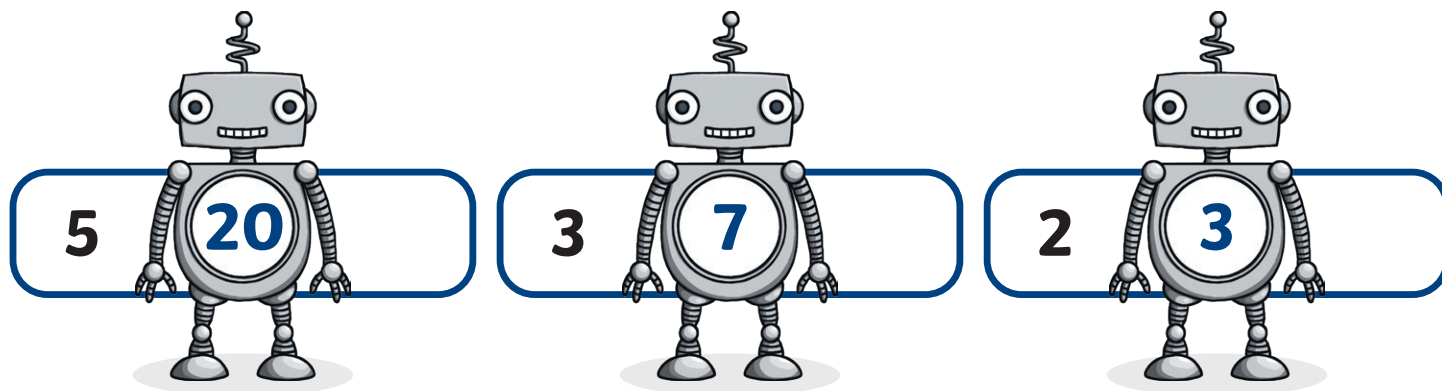
Can you find the missing number bond to make the number in the robot's tummy?

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

Mixed Number Bonds to 20 on Robots

Worksheet 1

Can you find the missing number bond to make the number in the robot's tummy?



Mixed Number Bonds to 20 on Robots

Worksheet 2

Can you find the missing number bond to make the number in the robot's tummy?

4

9

8

18

9

13

1

5

12

15

2

7

5

8

4

5

10

16

Finding and Practising Number Bonds to 10

Each grid has ten boxes in it. Count the number of boxes with an 'X' in them and then put 'O's' in the rest of the boxes or colour them if you prefer. Count them up and write in the number bond to 10 you have made. The first one has been done for you.

1

x	x	x	o	o	o	o	o	o	o
---	---	---	---	---	---	---	---	---	---

 $3 + 7 = 10$

2

x	x	x	x	x					
---	---	---	---	---	--	--	--	--	--

 $5 + \quad = 10$

3

x	x	x	x	x	x				
---	---	---	---	---	---	--	--	--	--

 $6 + \quad = 10$

4

x	x								
---	---	--	--	--	--	--	--	--	--

 $2 + \quad = 10$

5

						x	x	x	x
--	--	--	--	--	--	---	---	---	---

 $\quad + 4 = 10$

6

x	x	x							
---	---	---	--	--	--	--	--	--	--

 $3 + \quad = 10$

7

x									
---	--	--	--	--	--	--	--	--	--

 $1 + \quad = 10$

8

x	x	x	x	x	x	x			
---	---	---	---	---	---	---	--	--	--

 $7 + \quad = 10$

9

				x	x	x	x	x	x
--	--	--	--	---	---	---	---	---	---

 $\quad + 6 = 10$

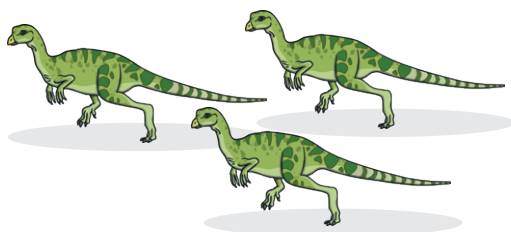
10

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

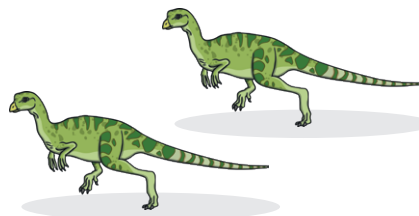
 $0 + \quad = 10$

Dinosaur Addition Sheet

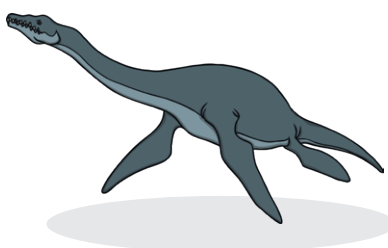
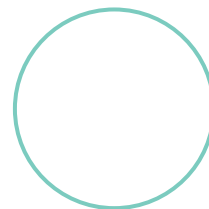
Write the answers in the circles.



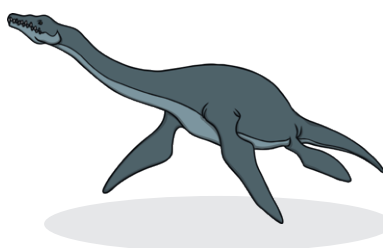
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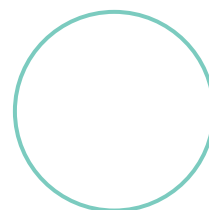
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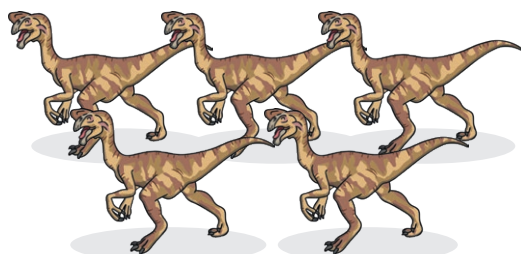
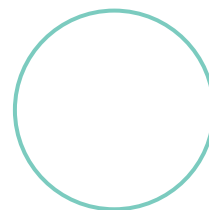
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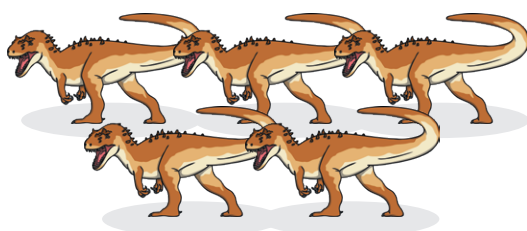
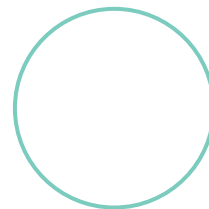
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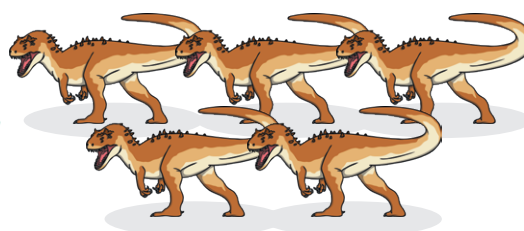
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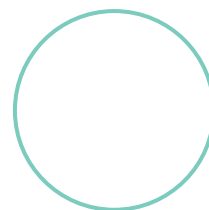
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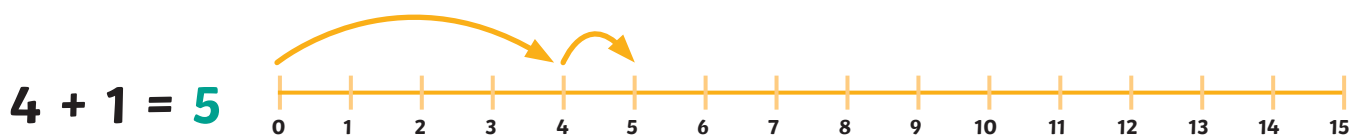
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Addition to 20 on a Number Line

Sheet 1

Example:



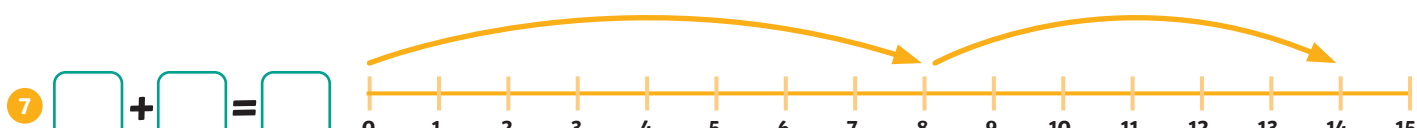
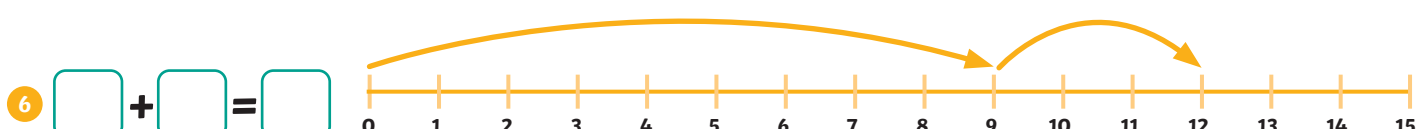
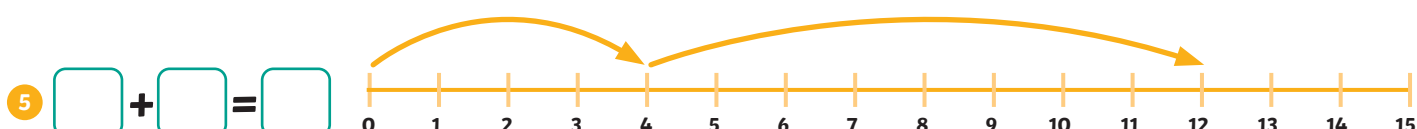
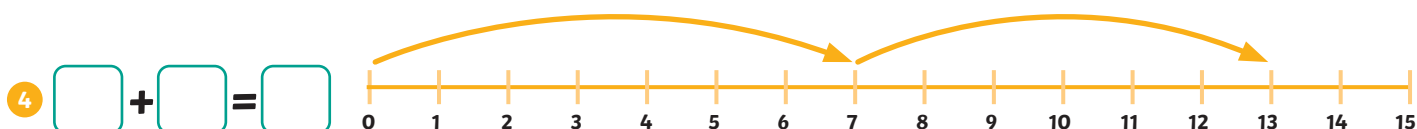
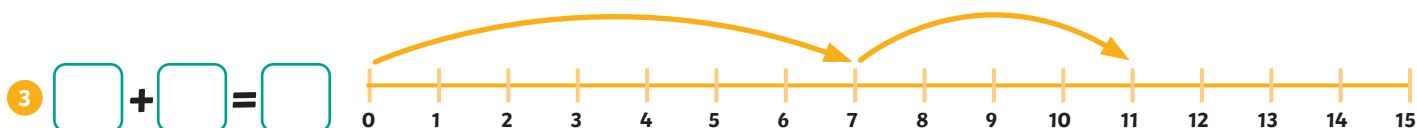
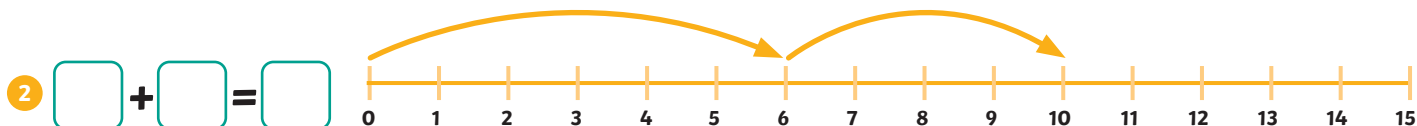
Questions:



Addition to 20 on a Number Line

Sheet 2

For these questions, can you work out which sums are being shown on the number lines? The first one has been done for you.



Addition to 20 on a Number Line

Sheet 3

Practice what you have learned so far on a number line to 20 and progress to see if you can draw your own number line!

1 $11 + 4 = \square$



A horizontal number line from 0 to 20 with tick marks every 1 unit. Two orange curved arrows start at 11. The first arrow points to 15 (11 + 4), and the second arrow points to 19 (15 + 4).

2 $\square + \square = \square$



A horizontal number line from 0 to 20 with tick marks every 1 unit. Two orange curved arrows start at 11. The first arrow points to 15 (11 + 4), and the second arrow points to 19 (15 + 4).

3 $8 + 9 = \square$



A horizontal number line from 0 to 20 with tick marks every 1 unit. Two orange curved arrows start at 8. The first arrow points to 17 (8 + 9), and the second arrow points to 26 (17 + 9), which is beyond the 20 mark.

4 $6 + \square = 9$



A horizontal number line from 0 to 20 with tick marks every 1 unit. Two orange curved arrows start at 6. The first arrow points to 9 (6 + 3), and the second arrow points to 12 (9 + 3).

5 $\square + \square = \square$



A horizontal number line from 0 to 20 with tick marks every 1 unit. Two orange curved arrows start at 6. The first arrow points to 9 (6 + 3), and the second arrow points to 12 (9 + 3).

6 $\square + 7 = 11$



A horizontal number line from 0 to 20 with tick marks every 1 unit. Two orange curved arrows start at 4. The first arrow points to 11 (4 + 7), and the second arrow points to 18 (11 + 7).

7 $9 + 9 = \square$



A horizontal number line from 0 to 20 with tick marks every 1 unit. Two orange curved arrows start at 9. The first arrow points to 18 (9 + 9), and the second arrow points to 27 (18 + 9), which is beyond the 20 mark.

8 $12 + 3 = \square$



A horizontal number line from 0 to 20 with tick marks every 1 unit. Two orange curved arrows start at 12. The first arrow points to 15 (12 + 3), and the second arrow points to 18 (15 + 3).

9 $7 + 9 = \square$



A horizontal number line from 0 to 20 with tick marks every 1 unit. Two orange curved arrows start at 7. The first arrow points to 16 (7 + 9), and the second arrow points to 25 (16 + 9), which is beyond the 20 mark.

10 $13 + 5 = \square$

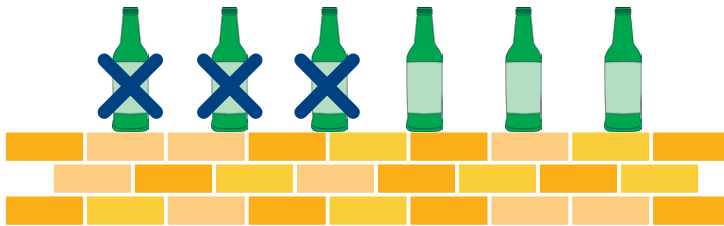


A horizontal number line from 0 to 20 with tick marks every 1 unit. Two orange curved arrows start at 13. The first arrow points to 18 (13 + 5), and the second arrow points to 23 (18 + 5), which is beyond the 20 mark.

Green Bottles Subtraction

Use crosses to knock the green bottles off the wall. How many are left?

Example:



$$6 - 3 =$$

6

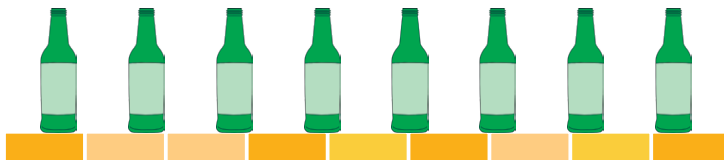
Questions:

1



$$7 - 3 =$$

2



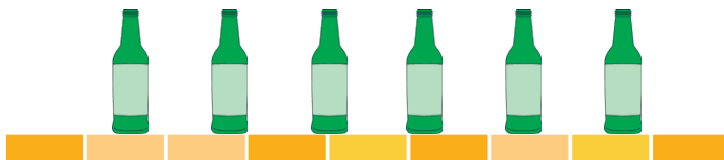
$$8 - 1 =$$

3



$$5 - 0 =$$

4



$$6 - 5 =$$

5



$$7 - 2 =$$

6



$$9 - 9 =$$

Elmer Addition to 20 Colour by Numbers Sheet

Solve the sums in the boxes to work out what colours they should be!

3 or 11 = Yellow

4 or 12 = Orange

5 or 13 = Blue

6 or 14 = Red

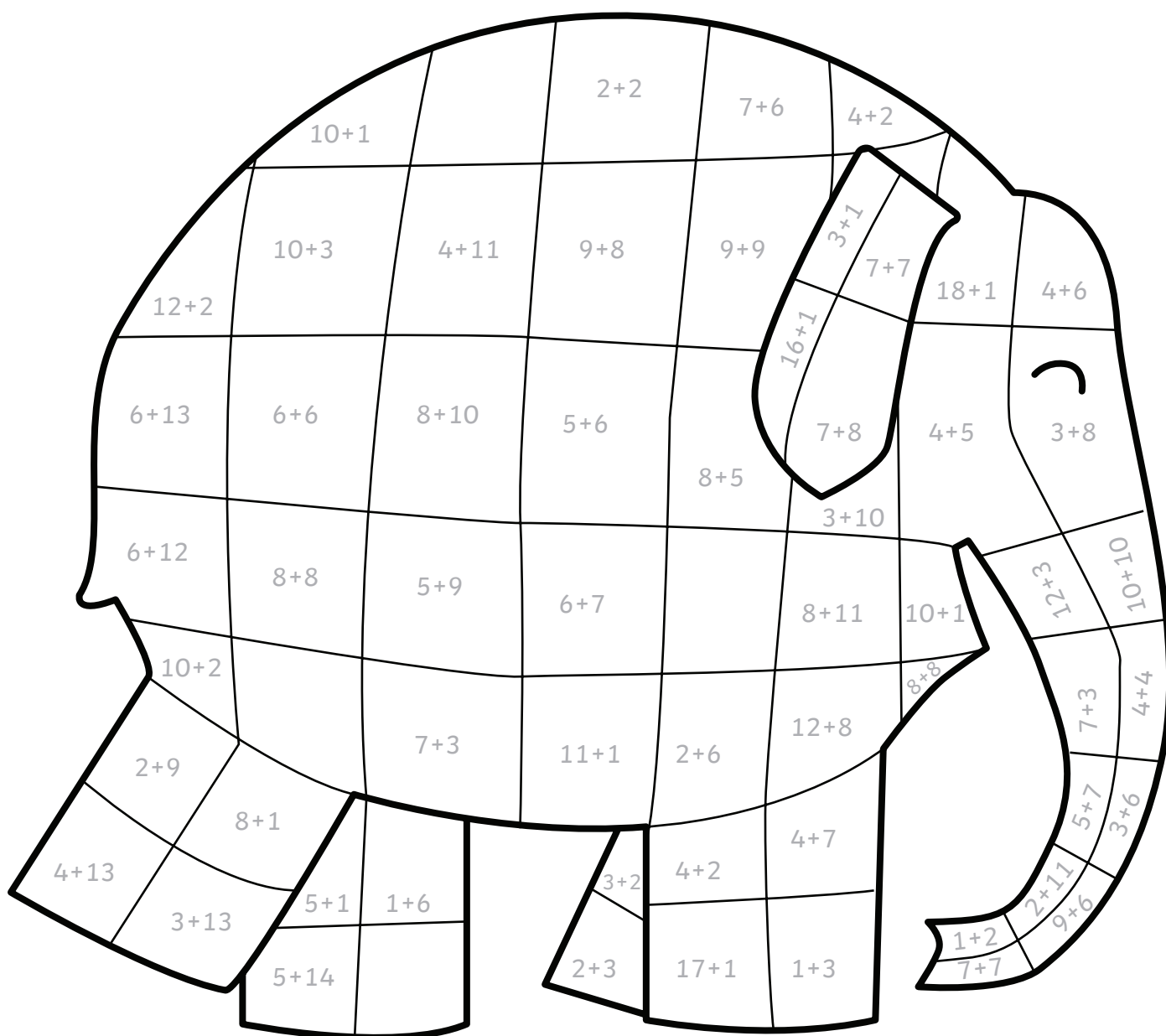
7 or 15 = Purple

8 or 17 = Black

9 or 18 = Pink

10 or 19 = Green

16 or 20 = Any colour!



Elmer Subtraction to 20 Colour by Numbers Sheet

Solve the sums in the boxes to work out what colours they should be!

3 or 11 = Yellow

4 or 12 = Orange

5 or 13 = Blue

6 or 14 = Red

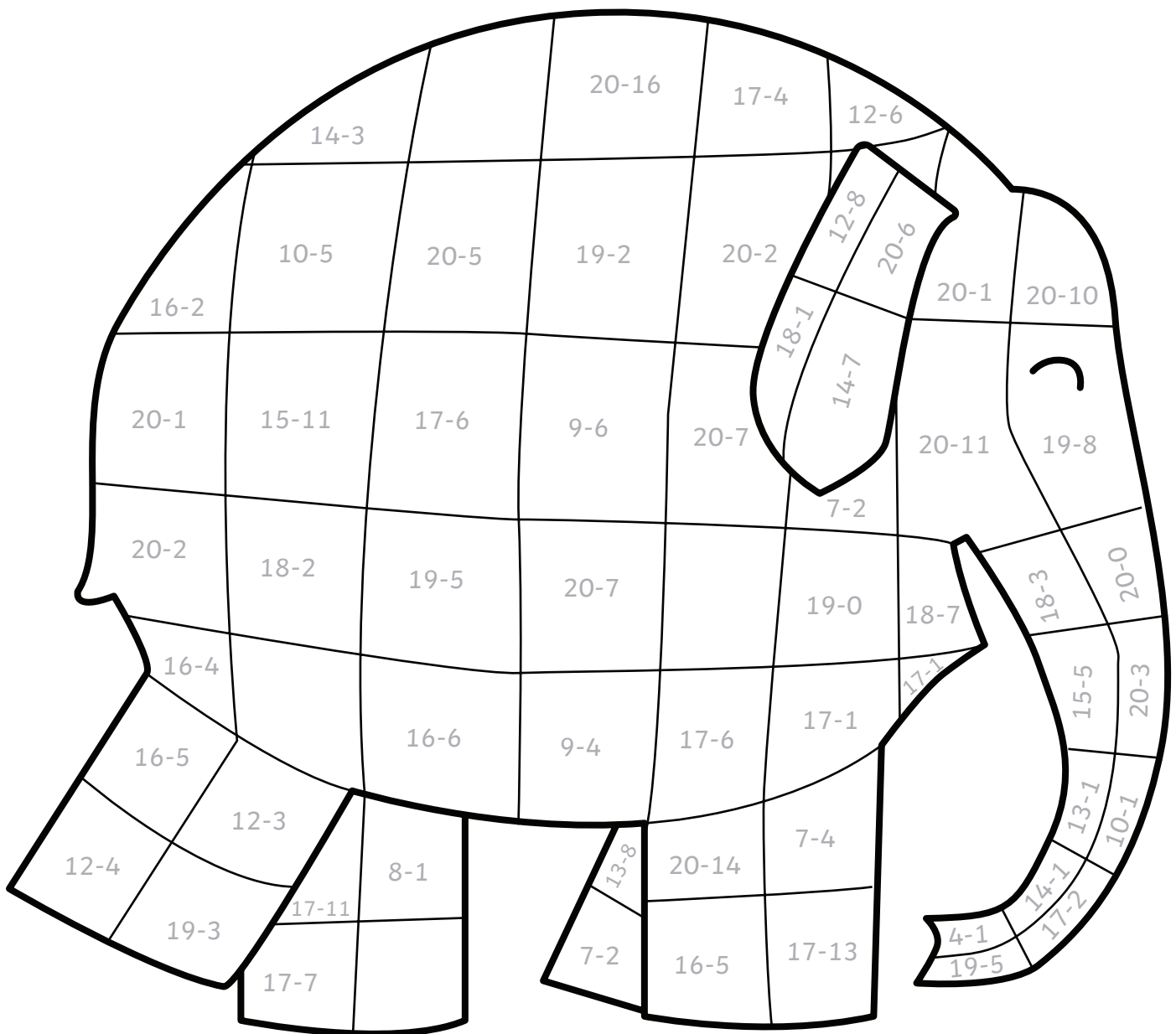
7 or 15 = Purple

8 or 17 = Black

9 or 18 = Pink

10 or 19 = Green

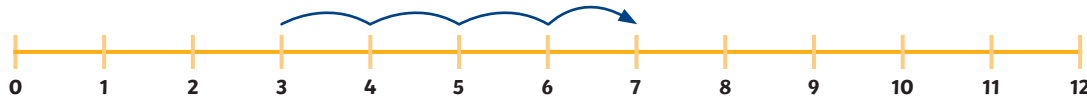
16 or 20 = Any colour!



Missing Number Calculations with a Number Line - 1

Example:

$$3 + \underline{4} = 7$$



Questions

1 $3 + \underline{\quad} = 7$



2 $7 - \underline{\quad} = 3$



3 $4 + \underline{\quad} = 10$



4 $10 - \underline{\quad} = 4$



5 $1 + \underline{\quad} = 7$



6 $7 - \underline{\quad} = 1$



7 $5 + \underline{\quad} = 8$



8 $8 - \underline{\quad} = 5$



9 $\underline{\quad} + 5 = 10$



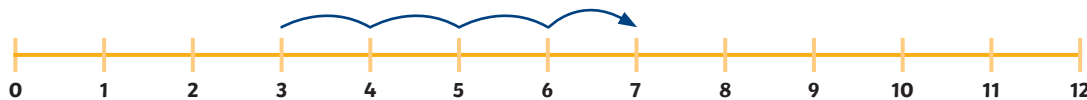
10 $10 - 5 = \underline{\quad}$



Missing Number Calculations with a Number Line - 2

Example:

$$3 + \underline{4} = 7$$



Questions

1 $3 + \underline{\quad} = 5$



2 $5 - \underline{\quad} = 3$



3 $2 + \underline{\quad} = 6$



4 $6 - \underline{\quad} = 2$



5 $2 + \underline{\quad} = 3$



6 $3 - \underline{\quad} = 2$



7 $2 + \underline{\quad} = 4$



8 $4 - \underline{\quad} = 2$



9 $5 + \underline{\quad} = 5$



10 $5 - \underline{\quad} = 1$



Missing Number Calculations with a Number Line - 3

Example:

$$3 + \underline{4} = 7$$



Questions

1 $6 + \underline{\quad} = 12$



2 $12 - \underline{\quad} = 6$



3 $5 + \underline{\quad} = 11$



4 $11 - \underline{\quad} = 5$



5 $3 + \underline{\quad} = 11$



6 $11 - \underline{\quad} = 3$



7 $\underline{\quad} + 5 = 9$



8 $9 - \underline{\quad} = 5$



9 $\underline{\quad} + 7 = 11$



10 $11 - \underline{\quad} = 7$

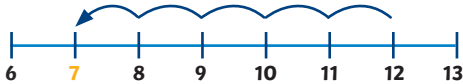


Addition and Subtraction to 20 with a Number Line - 1

Can you work out the answer and draw a picture or write a sentence about it? The first one is done for you.

Example:

$$12 - 5 = 7$$



My dad buys 12 eggs but breaks 5 of them. How many eggs does he have left?

Questions:

1 — $18 - 6 =$



2 — $8 + 12 =$



3 — $11 + 9 =$



4 — $17 - 8 =$

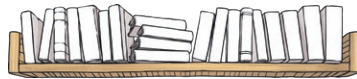
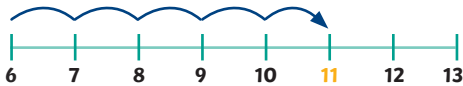


Addition and Subtraction to 20 with a Number Line - 2

Can you work out the answer and draw a picture or write a sentence about it? The first one is done for you.

Example:

$$6 + 5 = 11$$



I have a bookshelf with 6 books on and another with 5 on. How many books do I have altogether?

Example:

1 — $8 + 6 =$



2 — $14 - 3 =$



3 — $5 + 6 =$



4 — $10 - 7 =$

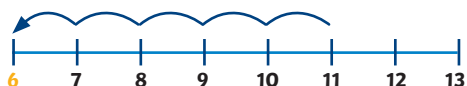


Addition and Subtraction to 20 with a Number Line - 3

Can you work out the answer and draw a picture or write a sentence about it? The first one is done for you.

Example:

$$11 - 5 = 6$$



I have 11 teddies but I took 5 to the summer fair at school. How many do I have now?

Example:

$$19 - 7 = \square$$



$$18 - 12 = \square$$



$$5 + 13 = \square$$



$$12 + 7 = \square$$



Building Brick Addition - 1

Can you add up the bumps on the building bricks?

1

$$\begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

2

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} =$$

3

$$\begin{array}{|c|c|c|} \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} =$$

4

$$\begin{array}{|c|c|c|} \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

5

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

6

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} =$$

7

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

8

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

Building Brick Addition - 2

Can you add up the bumps on the building bricks?

1

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

2

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} =$$

3

$$\begin{array}{|c|c|c|} \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

4

$$\begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|c|} \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \end{array} =$$

5

$$\begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \bigcirc \\ \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

6

$$\begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \bigcirc \\ \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} + \begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \bigcirc \\ \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} =$$

7

$$\begin{array}{|c|c|c|} \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|c|} \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \end{array} =$$

8

$$\begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

Building Brick Addition - 3

Can you add up the bumps on the building bricks?

1

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

2

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|} \hline \bigcirc \\ \hline \bigcirc \\ \hline \end{array} =$$

3

$$\begin{array}{|c|c|c|} \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

4

$$\begin{array}{|c|c|c|c|} \hline \bigcirc & \bigcirc & \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc & \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

5

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

6

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

7

$$\begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$

8

$$\begin{array}{|c|c|c|} \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bigcirc & \bigcirc \\ \hline \bigcirc & \bigcirc \\ \hline \end{array} =$$