

Reasoning and Problem Solving

Step 9: The 10 Times Table

National Curriculum Objectives:

Mathematics Year 2: (2C6) [Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers](#)

Mathematics Year 2: (2C7) [Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication \(\$\times\$ \), division \(\$\div\$ \) and equals \(=\) signs](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Match the multiplication equations to the correct answer and write the correct equation for the answer left over, using the 10 times table up to 5×10 .

Expected Match the multiplication equations to the correct answer and write the correct equation for the answer left over, using the 10 times tables up to 12×10 .

Greater Depth Match the multiplication equations to the correct answer and write the correct equation for the answer left over, using the 10 times table up to and beyond 12×10 using associated facts such as $16 \times 10 = (10 \times 10) + (10 \times 6)$.

Questions 2, 5 and 8 (Reasoning)

Developing Identify that multiplication can be completed in any order using the 10 times table up to 5×10 .

Expected Identify that multiplication can be completed in any order using the 10 times tables up to 12×10 .

Greater Depth Identify that multiplication can be completed in any order using the 10 times tables up to and beyond 12×10 using associated facts such as $16 \times 10 = (10 \times 10) + (10 \times 6)$.

Questions 3, 6 and 9 (Problem Solving)

Developing Solve a word problem using the 10 times tables up to 5×10 . Images to support.

Expected Solve a two-step word problem using the 10 times tables up to 12×10 .

Greater Depth Solve a two-step word problem using the 10 times tables up to and beyond 12×10 using associated facts such as $16 \times 10 = (10 \times 10) + (10 \times 6)$.

[More resources](#) which follow the same small steps as White Rose.

Did you like this resource? Don't forget to [review](#) it on our website.

The 10 Times Table

1a. Match the equations to their correct answers.

10×3 30
 0×10
 50 0

Write two multiplication equations to match the odd one out.



PS

The 10 Times Table

1b. Match the equations to their correct answers.

20 40
 4×10
 10 10×2

Write two multiplication equations to match the odd one out.



PS

2a. Fabian says:

1×10 is the same as 10×1



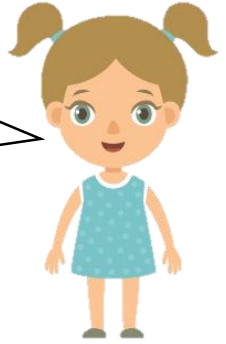
Is he correct? Explain how you know.



R

2b. Emily says:

3×10 is the same as 10×3



Is she correct? Explain how you know

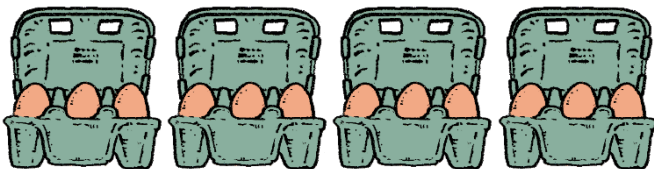


R

3a. Eggs are sold in packs of 10.

Louise buys 4 packs.

How many eggs does she have?



PS

3b. Cookies are sold in bags of 10.

Adrian buys 5 bags.

How many cookies does he have?



PS

The 10 Times Table

4a. Match the equations to their correct answers.

50	10×8	60
80	70	10×5
	7×10	

Write two multiplication equations to match the odd one out.



PS

The 10 Times Table

4b. Match the equations to their correct answers.

90	10×4	110
70	40	10×9
	11×10	

Write two multiplication equations to match the odd one out.



PS

5a. Josie says:

10×11 is the same as 11×10



Is she correct? Explain how you know.



R

5b. Yusef says:

6×10 is the same as 10×6



Is he correct? Explain how you know.



R

6a. Blueberries are sold in packs of 10.

Sara has 40 blueberries.

How many packs did she buy?



If Sara eats one pack, how many blueberries will she have left?



PS

6b. Pencils are sold in packs of 10.

Harry has 20 pencils.

How many packs did he buy?



If Harry gives one pack to a friend, how many pencils will he have left?



PS

The 10 Times Table

7a. Match the equations to their correct answers.

10×8
 10×10

180

120

130

3×10
 10×10

10×10
 10×5

150

Write two multiplication equations to match the odd one out.



PS

The 10 Times Table

7b. Match the equations to their correct answers.

170

10×10
 10×4

140

9×10
 10×10

190

160

10×10
 6×10

Write two multiplication equations to match the odd one out.



PS

8a. Laura says:

To solve 14×10 , I can use 10×10 and 4×10 , then add the answers.



Is she correct? Explain how you know.



R

8b. Jake says:

To solve 13×10 , I can use 10×10 and 2×10 , then add the answers.



Is he correct? Explain how you know.



R

9a. Sweets are sold in bags of 10.

Hannah has 150 sweets.

How many bags did she buy?



If Hannah gives 3 bags to her friends, how many sweets will she have left?



PS

9b. Grapes are sold in bunches of 10.

Tim has 140 grapes.

How many bunches did he buy?



If Tim gives 4 bunches to his friends, how many grapes will he have left?



PS

Reasoning and Problem Solving The 10 Times Table

Developing

1a. $10 \times 3 = 30$, $0 \times 10 = 0$

Any one of: $5 \times 10 = 50$, $10 \times 5 = 50$, $50 = 5 \times 10$, $50 = 10 \times 5$.

2a. Yes. Both total 10.

3a. 40 eggs

Expected

4a. $10 \times 8 = 80$, $7 \times 10 = 70$, $10 \times 5 = 50$

Any two of: $6 \times 10 = 60$, $10 \times 6 = 60$, $60 = 6 \times 10$, $60 = 10 \times 6$.

5a. Yes. Both total 110.

6a. 4 packs. She will have 30 berries left.

Greater Depth

7a. 10×8 & $10 \times 10 = 180$, 3×10 & $10 \times 10 = 130$, 10×10 & $10 \times 5 = 150$

Various possibilities, for example: $12 \times 10 = 120$, $120 = 12 \times 10$, 10×10 & $10 \times 2 = 120$.

8a. Yes, because $10 + 4 = 14$. Both total 140.

9a. 15 bags. She will have 120 sweets left.

Reasoning and Problem Solving The 10 Times Table

Developing

1b. $4 \times 10 = 40$, $10 \times 2 = 20$

Any one of: $1 \times 10 = 10$, $10 \times 1 = 10$, $10 = 1 \times 10$, $10 = 10 \times 1$.

2b. Yes. Both total 30.

3b. 50 cookies

Expected

4b. $10 \times 4 = 40$, $11 \times 10 = 110$, $10 \times 9 = 90$

Any two of: $7 \times 10 = 70$, $10 \times 7 = 70$, $70 = 7 \times 10$, $70 = 10 \times 7$.

5b. Yes. Both total 60.

6b. 2 packs. He will have 10 pencils left.

Greater Depth

7b. 9×10 & $10 \times 10 = 190$, 10×10 & $10 \times 4 = 140$, 10×10 & $6 \times 10 = 160$

Various possibilities, for example: $17 \times 10 = 170$, $170 = 17 \times 10$, 10×10 & $10 \times 7 = 170$.

8b. No, because $10 + 2 = 12$ and $12 \times 10 = 120$. $13 \times 10 = 130$.

9b. 14 bunches. He will have 100 grapes left