

Reasoning and Problem Solving

Step 7: The 2 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](#)

Mathematics Year 2: (2C8) [Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts](#)

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Explain if a given statement is correct using knowledge of the 2 times table. Pictorial representation given as support.

Expected Explain if a given statement is correct using knowledge of the 2 times table. Bar model given as support.

Greater Depth Explain if a given statement is correct using knowledge of the 2 times table up to and beyond $12x$, by applying multiplication facts. No support given.

Questions 2, 5 and 8 (Problem Solving)

Developing Explain which statement is correct using knowledge of the 2 times table. Pictorial representation given as support.

Expected Explain which statement is correct using knowledge of the 2 times table. Bar model given as support.

Greater Depth Explain which statement is correct using knowledge of the 2 times table up to and beyond $12x$, by applying multiplication facts. No support given.

Questions 3, 6 and 9 (Problem Solving)

Developing Use the digit cards to complete a multiplication using knowledge of the 2 times table. Pictorial representation given as support.

Expected Use the digit cards to complete a multiplication using knowledge of the 2 times table. No support given.

Greater Depth Use the digit cards to complete and compare multiplications using knowledge of the 2 times table up to and beyond $12x$, by applying multiplication facts. No support given.

More [Year 2 Multiplication and Division](#) resources.

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

The 2 Times Table

1a. There are 2 pencils in a pack.

Alice says,



I bought 4 packs so I have 10 pencils.



Is she correct? Explain why.



R

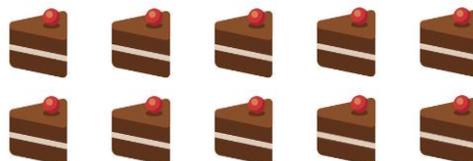
The 2 Times Table

1b. There are 2 cakes in a box.

Kai says,



I have 5 boxes so I have 9 cakes.



Is he correct? Explain why.



R

2a. Liz and Todd buy chocolates from the tuck shop. Liz has 12 altogether.

Todd says,



I have 7 packs of 2 chocolates.



Who has the most chocolates?



PS

2b. Jordan and Katie buy pens from the gift shop. Jordan has 8 altogether.

Katie says,



I have 3 packets of 2 pens.



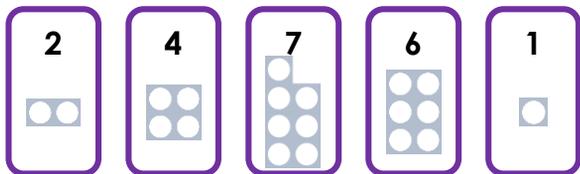
Who has the most pens?



PS

3a. Use the cards below to complete the statement. You can use the cards more than once.

$$\square \times 2 = \square$$



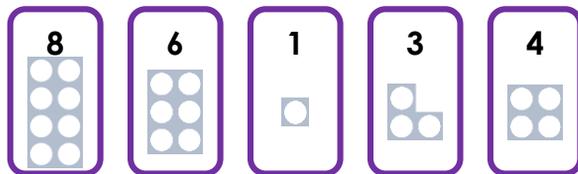
Find 2 possibilities.



PS

3b. Use the cards below to complete the statement. You can use the cards more than once.

$$\square \times 2 = \square$$



Find 2 possibilities.



PS

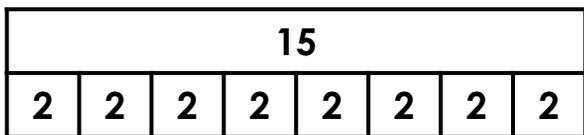
The 2 Times Table

4a. There are 2 books in a pack.

Jose says,



I bought 8 packs so I have 15 books.



Is he correct? Explain why.



R

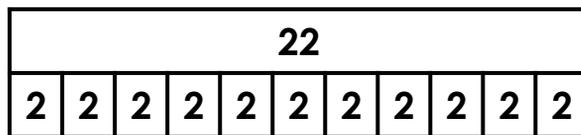
The 2 Times Table

4b. There are 2 balls in a box.

Ruby says,



I have 11 boxes so I have 22 balls.



Is she correct? Explain why.



R

5a. Imani and Scott buy stickers for their collections.

Imani says,



I have 2 packs of 10 stickers.

Scott says,



I have 7 packs of 2 stickers.

Who has the most stickers?



PS

5b. Leyla and Noel buy sweets from the shop.

Leyla says,



I have 2 packets of 9 sweets.

Noel says,



I have 12 packets of 2 sweets.

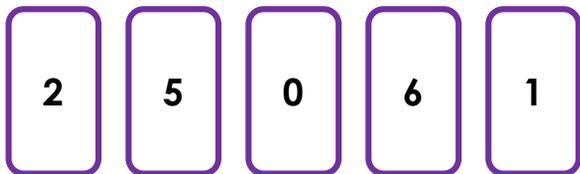
Who has the most sweets?



PS

6a. Use the cards below to complete the statement. You can use the cards more than once.

$$\square \times 2 = \square \square$$



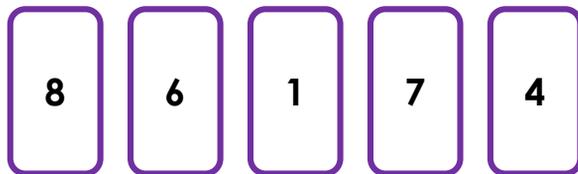
Find 2 possibilities.



PS

6b. Use the cards below to complete the statement. You can use the cards more than once.

$$\square \times 2 = \square \square$$



Find 2 possibilities.



PS

The 2 Times Table

7a. There are 2 batteries in a pack.

Toby says,



I bought 13 packs so
I have 26 batteries.

Is he correct? Explain why.



R

The 2 Times Table

7b. There are 2 crayons in a box.

Tina says,



I have 17 boxes so
I have 43 crayons.

Is she correct? Explain why.



R

8a. Simon and Cali buy pencils for their colouring books.

Simon says,



I have 18 lots
of 2 pencils.

Cali says,

I have 2 lots
of 19 pencils.



Who has the most pencils?



PS

8b. Niamh and Mick count the badges they own.

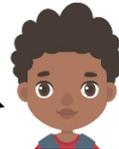
Niamh says,



I have 15 lots
of 2 badges.

Mick says,

I have 2 lots
of 15 badges.



Who has the most badges?



PS

9a. Use the cards below to complete the statement. You can only use each card once.

$$\square \times 2 < 2 \times \square$$

5

7

10

4

6

Find 2 possibilities.



PS

9b. Use the cards below to complete the statement. You can only use each card once.

$$2 \times \square > 2 \times \square$$

4

3

9

8

6

Find 2 possibilities.



PS

Reasoning and Problem Solving The 2 Times Table

Developing

- 1a. Alice is incorrect because $4 \times 2 = 8$.
- 2a. Todd has the most chocolates because $7 \times 2 = 14$.
- 3a. $1 \times 2 = 2$, $2 \times 2 = 4$

Expected

- 4a. Jose is incorrect because $8 \times 2 = 16$.
- 5a. Imani has the most stickers because $10 \times 2 = 20$. Scott has 14 stickers.
- 6a. $5 \times 2 = 10$, $6 \times 2 = 12$

Greater Depth

- 7a. Toby is correct because $13 \times 2 = 26$.
- 8a. Cali has the most pencils because $2 \times 19 = 38$ and $18 \times 2 = 36$.
- 9a. $4 \times 2 < 2 \times 7$, $6 \times 2 < 10 \times 2$

Reasoning and Problem Solving The 2 Times Table

Developing

- 1b. Kai is incorrect because $5 \times 2 = 10$.
- 2b. Jordan has the most pens because $3 \times 2 = 6$.
- 3b. $3 \times 2 = 6$, $4 \times 2 = 8$

Expected

- 4b. Ruby is correct because $11 \times 2 = 22$.
- 5b. Noel has the most sweets because $12 \times 2 = 24$. Leyla has 18 sweets.
- 6b. $8 \times 2 = 16$, $7 \times 2 = 14$

Greater Depth

- 7b. Tina is incorrect because $17 \times 2 = 34$.
- 8b. Niamh and Mick have the same amount of badges because 15×2 and $2 \times 15 = 30$.
- 9b. $2 \times 8 > 2 \times 6$, $2 \times 4 > 2 \times 3$