

Reasoning and Problem Solving

Step 3: Find a Half

National Curriculum Objectives:

Mathematics Year 2: (2F1a) [Recognise, find, name and write fractions \$\frac{1}{3}\$, \$\frac{1}{4}\$, \$\frac{2}{4}\$ and \$\frac{3}{4}\$ of a length, shape, set of objects or quantity](#)

Mathematics Year 2: (2F1b) [Write simple fractions for example, \$\frac{1}{2}\$ of \$6 = 3\$](#)

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Explain whether the given answer to a word problem involving finding a half is correct. Grouped pictorial support and scaffolding provided.

Expected Explain whether the given answer to a word problem involving finding a half is correct. Pictorial support provided.

Greater Depth Explain whether the given answer to a word problem involving finding a half. No pictorial support or scaffolding provided.

Questions 2, 5 and 8 (Problem Solving)

Developing Using 2 out of 3 digit cards, complete an equation involving finding half of a whole number. Grouped pictorial support and scaffolding provided.

Expected Using 4 digit cards, complete 2 equations involving finding half of a whole number.

Greater Depth Using 4 out of 5 digit cards, complete 2 equations involving finding half of a whole number.

Questions 3, 6 and 9 (Reasoning)

Developing Solve a word problem involving finding half of a whole number and explain answer. Grouped pictorial support and scaffolding provided.

Expected Solve a word problem involving finding half of a whole number and explain answer. Pictorial support provided.

Greater Depth Solve a word problem involving finding half of a whole number and explain answer. No pictorial support or scaffolding provided.

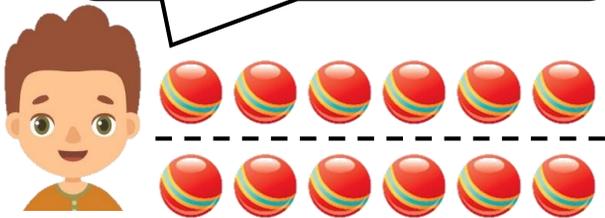
More [Year 2 Fractions](#) resources.

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Find a Half

1a. Is Alfie correct?

I had 12 bouncy balls. I lost half of them. Now I have only 5 left.



Explain why.

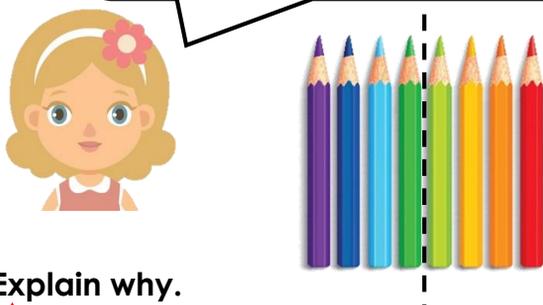


R

Find a Half

1b. Is Emily correct?

I had 8 coloured pencils. I broke half of them. Now I have 4 left.

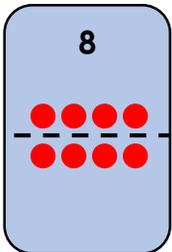
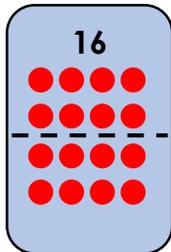
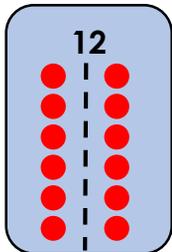


Explain why.



R

2a. Using the digit cards, complete the statements below.

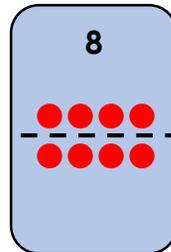
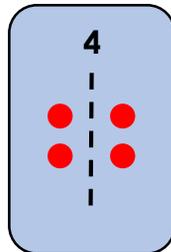
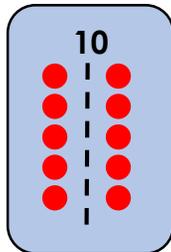


$$\frac{1}{2} \text{ of } \square = \square$$



PS

2b. Using the digit cards, complete the statements below.

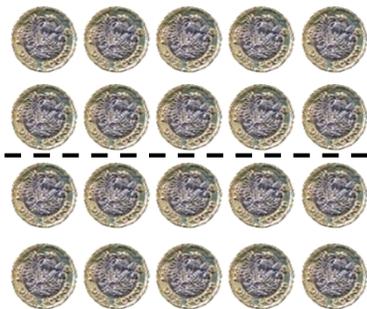


$$\frac{1}{2} \text{ of } \square = \square$$



PS

3a. Ronnie has £20. He wants to buy a toy robot that costs half of his money. How much does the robot cost?



Explain how you know.



R

3b. Jibril has £6. He wants to buy a yoyo which costs half of his money. How much does the yoyo cost?



Explain how you know.

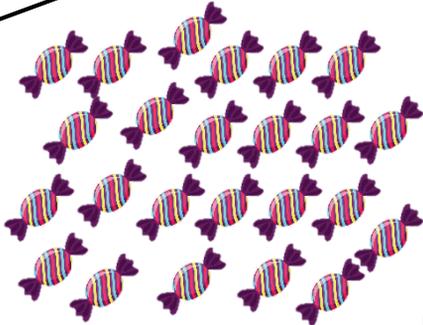


R

Find a Half

4a. Is Sasha correct?

I had 24 sweets. I gave half of them to Sam. Now we have 14 sweets each.



Explain why.

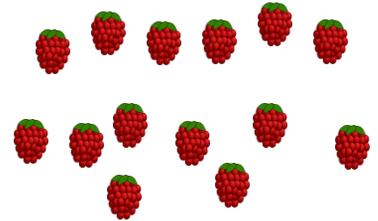


R

Find a Half

4b. Is Naveed correct?

I picked 14 raspberries. I ate half of them. Now I have 7 raspberries left.

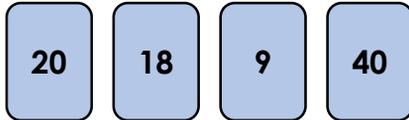


Explain why.



R

5a. Using the digit cards, complete the statements below.



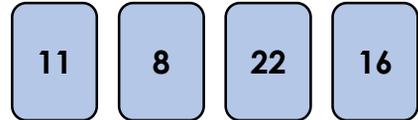
A. $\frac{1}{2}$ of =

B. $\frac{1}{2}$ of =



PS

5b. Using the digit cards, complete the statements below.



A. $\frac{1}{2}$ of =

B. $\frac{1}{2}$ of =



PS

6a. Aria has £20. She wants to buy a ball that costs half of her money. How much does the ball cost?



Explain how you know.



R

6b. Evie has £26. She wants to buy a racket which costs half of her money. How much does the racket cost?



Explain how you know.



R

Find a Half

7a. Is Caleb correct?

I had 26 buttons but I lost half of them. Now I have 13 buttons left.



Explain why.



R

Find a Half

7b. Is Roxy correct?

I had 28 balloons but half of them burst. Now I have 18 balloons left.

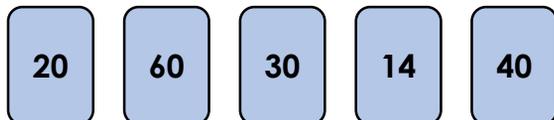


Explain why.



R

8a. Using the digit cards, complete the statements below.



A. $\frac{1}{2}$ of =

B. $\frac{1}{2}$ of =



PS

8b. Using the digit cards, complete the statements below.



A. $\frac{1}{2}$ of =

B. $\frac{1}{2}$ of =



PS

9a. Joey has £28. He wants to buy a ball that costs half his money. How much does the ball cost?



Explain how you know.



R

9b. Mia has £80. She wants to buy some ice-skates which cost half her money. How much do the ice-skates cost?



Explain how you know.



R

Reasoning and Problem Solving Find a Half

Developing

- 1a. Alfie is incorrect. Half of 12 is 6.
- 2a. Half of 16 is 8.
- 3a. £10 because half of 20 is £10.

Expected

- 4a. Sasha is incorrect. Half of 24 is 12.
- 5a. Half of 40 is 20; half of 18 is 9.
- 6a. £10 because half of £20 is £10.

Greater Depth

- 7a. Caleb is correct. Half of 26 is 13.
- 8a. Half of 60 is 30; half of 40 is 20.
- 9a. £14 because half of £28 is £14.

Reasoning and Problem Solving Find a Half

Developing

- 1b. Emily is correct. Half of 8 is 4.
- 2b. Half of 8 is 4.
- 3b. £3 because half of £6 is £3.

Expected

- 4b. Naveed is correct. Half of 14 is 7.
- 5b. Half of 16 is 8; half of 22 is 11.
- 6b. £13 because half of £26 is £13.

Greater Depth

- 7b. Roxy is incorrect. Half of 28 is 14.
- 8b. Half of 24 is 12; half of 22 is 11.
- 9b. £40 because half of 8 is 4 so half of £80 is £40.