Reasoning and Problem Solving Step 7: Find a Third

National Curriculum Objectives:

Mathematics Year 2: (2F1a) <u>Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity</u>

Mathematics Year 2: (2F1b) Write simple fractions for example, 1/2 of 6 = 3

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Solve a word problem to find one third. Images given in arrays.

Expected Solve a word problem to find one third. Images given to support.

Greater Depth Solve a two-step word problem to find one third. No images given.

Questions 2, 5 and 8 (Problem Solving)

Developing Using all of the digit cards, complete the 2 equations to find one third of a whole number.

Expected Using some of the digit cards, complete the 2 equations to find one third of a whole number.

Greater Depth Using some of the digit cards, complete the 3 equations to find one third of a whole number.

Questions 3, 6 and 9 (Reasoning)

Developing Explain whether a given statement about finding one third of a whole number is correct. Images given in arrays.

Expected Explain whether a given statement about finding one third of a whole number is correct. Images given to support.

Greater Depth Explain whether a given statement about finding one third of a whole number is correct. No images given.

More Year 2 Fractions resources.

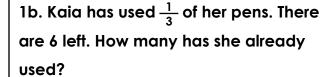
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Find a Third

Find a Third

1a. Ben has eaten $\frac{1}{3}$ of his apples. There are 2 apples left. How many has he already eaten?

















2a. Use the digit cards below to make the

2b. Use the digit cards below to make the statements correct.

statements correct.

$$\frac{1}{3}$$
 of $\boxed{}$ =

$$\frac{1}{3}$$
 of $\boxed{}$

$$\frac{1}{3}$$
 of $\boxed{}$

$$\frac{1}{3}$$
 of $\boxed{}$

3b. Fatima makes 9 pizzas. She wants to

share them equally between 3 friends.



She says,

Fatima

3a. Stefan makes 12 windmills. He wants to share them equally between 3 friends. He says,

Each friend will get 3 windmills because 3 is 뉴 of 12.

Is Stefan correct? Explain your answer.



Stefan

Each friend will get 4 pizzas because 4 is $\frac{1}{3}$ of 9.

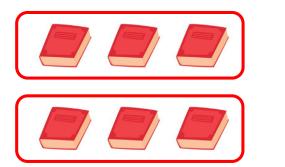
Is Fatima correct? Explain your answer.



Find a Third

Find a Third

4a. Sophie has read $\frac{1}{3}$ of her library books. She has 6 left to read. How many has she already read?



4b. Jakub has used $\frac{1}{3}$ of his stickers. There are 8 left in the pack. How many has he already used?





5a. Use the digit cards below to make the statements correct.

$$\frac{1}{3}$$
 of $\boxed{}$

$$\frac{1}{3}$$
 of $\boxed{}$

5b. Use the digit cards below to make the statements correct.

$$\frac{1}{3}$$
 of

$$\frac{1}{3}$$
 of $\boxed{}$





6a. Annabel makes 21 cupcakes. She wants to share them equally between 3 friends. She says,

Each friend will get 8 cupcakes because 8 is $\frac{1}{3}$ of 21.



Annabel



Is Annabel correct? Explain your answer.



6b. Hasan makes 18 sandwiches. He wants to share them equally between 3 friends. He says,



Each friend will get 5 sandwiches because 5 is $\frac{1}{3}$ of 18.

Hasan



Is Hasan correct? Explain your answer.



Find a Third

Find a Third

7a. Matthew has read $\frac{1}{3}$ of his comic books.

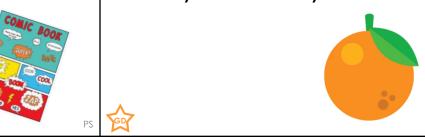
7b. Fozia has eaten $\frac{1}{3}$ of her oranges.

He has 12 left to read.

There are 18 left in the bowl.

How many has he already read?

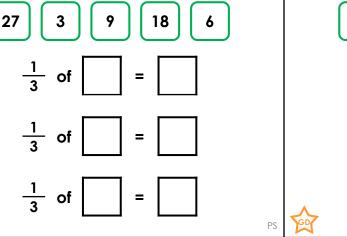
How many has she already eaten?

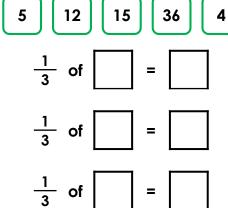




8a. Use the digit cards below to make the statements correct. You can use some digit cards more than one

8b. Use the digit cards below to make the statements correct. You can use some digit cards more than one

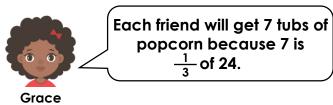






9a. Adil makes 27 pancakes. He wants to share them equally between 3 friends. He says,

9b. Grace makes 24 tubs of popcorn. She wants to share them equally between 3 friends. She says,



Each friend will get 8 pancakes because 8 is



Is Adil correct? Explain your answer.



CLASSROOMSecrets © Classroom Secrets Limited 2019 Is Grace correct? Explain your answer.

Reasoning and Problem Solving Find a Third

Reasoning and Problem Solving Find a Third

Developing

2a.
$$\frac{1}{3}$$
 of $\underline{12} = \underline{4}$ and $\frac{1}{3}$ of $\underline{3} = \underline{1}$

3a. No,
$$\frac{1}{3}$$
 of 12 is 4.

Expected

5a.
$$\frac{1}{3}$$
 of $15 = 5$ and $\frac{1}{3}$ of $18 = 6$

6a. No,
$$\frac{1}{3}$$
 of 21 is 7.

Greater Depth

8a.
$$\frac{1}{3}$$
 of $\underline{27} = \underline{9}$ and $\frac{1}{3}$ of $\underline{18} = \underline{6}$ and $\frac{1}{3}$ of $\underline{9} = \underline{3}$

9a. No,
$$\frac{1}{3}$$
 of 27 is 9.

Developing

2b.
$$\frac{1}{3}$$
 of $9 = 3$ and $\frac{1}{3}$ of $6 = 2$

3b. No,
$$\frac{1}{3}$$
 of 9 is 3.

Expected

5b.
$$\frac{1}{3}$$
 of $\underline{12} = \underline{4}$ and $\frac{1}{3}$ of $\underline{21} = \underline{7}$

6b. No,
$$\frac{1}{3}$$
 of 18 is 6.

Greater Depth

8b.
$$\frac{1}{3}$$
 of $\underline{36} = \underline{12}$ and $\frac{1}{3}$ of $\underline{15} = \underline{5}$ and

$$\frac{1}{3}$$
 of $12 = 4$

9b. No,
$$\frac{1}{3}$$
 of 24 is 8.