## Reasoning and Problem Solving Step 7: Find a Third

## National Curriculum Objectives:

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

Did you like this resource? Don't forget to review it on our website.

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 statements correct．


$$
\frac{1}{3} \text { of } \square=\square
$$

$$
\frac{1}{3} \text { of } \square=\square
$$

1b．Kaia has used $\frac{1}{3}$ of her pens．There are 6 left．How many has she already used？


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

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

$$
\frac{1}{3} \text { of } \square=\square
$$

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


Is Stefan correct？Explain your answer．凩

3b．Fatima makes 9 pizzas．She wants to share them equally between 3 friends．
She says，


Is Fatima correct？Explain your answer．唋

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


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

$$
\begin{gathered}
15 \square 9 \square \\
\frac{1}{3} \text { of } \square=\square \\
\frac{1}{3} \text { of } \square=\square
\end{gathered}
$$

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


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


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

$$
\begin{gathered}
7 \square 3 \square 21 \\
\frac{1}{3} \text { of } \square=\square \\
\frac{1}{3} \text { of } \square=\square
\end{gathered}
$$

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


Hasan

Is Hasan correct? Explain your answer.


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


Is Adil correct? Explain your answer.

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


Is Grace correct? Explain your answer.

Reasoning and Problem Solving
Find a Third

## Reasoning and Problem Solving

 Find a Third
## Developing

1b. 3
2b. $\frac{1}{3}$ of $\underline{q}=\underline{3}$ and $\frac{1}{3}$ of $\underline{6}=\underline{2}$
3b. No, $\frac{1}{3}$ of 9 is 3 .

## Expected

4b. 4
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

7b. 9
8b. $\frac{1}{3}$ of $\underline{36}=\underline{12}$ and $\frac{1}{3}$ of $\underline{15}=\underline{5}$ and $\frac{1}{3}$ of $\underline{12}=\underline{4}$
9b. No, $\frac{1}{3}$ of 24 is 8 .

