## Reasoning and Problem Solving

## Step 11: Find Three Quarters

## 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

## Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Explain if the statement is correct. Including quantities and using dividing lines to show the quarters.
Expected Explain if the statement is correct including quantities arranged in arrays.
Greater Depth Explain if the statement is correct. No quantities or scaffolding provided.
Questions 2, 5 and 8 (Reasoning)
Developing Identify three quarters and the total when given a quarter of the quantity. Including quantities and using hoops to show the quarters.
Expected Identify three quarters and the total when given a quarter of the quantity.
Quantities arranged in an array.
Greater Depth Identify three quarters and the total when given a quarter of the quantity within a mixed group of objects, arranged randomly.

Questions 3, 6 and 9 (Problem Solving)
Developing Solve a word problem to find the total when given one quarter of the quantity. Image of one quarter shown and dividing lines.
Expected Solve a word problem to find the total when given one quarter of the quantity. Image of one quarter shown.
Greater Depth Solve a word problem to find the total when given one quarter of the quantity. No images or scaffolding provided.

## More Year 2 Fractions resources.

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

1a．Hannah says，

$$
\frac{3}{4} \text { of } 12 \text { is } 9
$$



Is Hannah correct？Prove it．

2a．Ted makes some sandwiches．
$\frac{1}{4}$ of them are shown below．


Circle the number of sandwiches that Ted makes altogether．

8

How do you know？
吅
3a．Solve the word problem below．
Sam is thinking of a number．
One quarter of his number is shown below．


What is Sam＇s number？

1b．Matt says，


Is Matt correct？Prove it．
吅
2b．Megan bakes some bread rolls．
$\frac{1}{4}$ of them are shown below．


Circle the number of bread rolls that Megan bakes altogether．


How do you know？
W
3b．Solve the word problem below．
Jen is thinking of a number．
One quarter of her number is shown below．


What is Jen＇s number？


Is Sam correct? Prove it.

5a. Isra collects some shells.
$\frac{1}{4}$ of them are shown below.


Circle the number of shells that Isra collects altogether.


How do you know?
6a. Solve the word problem below.

Azzam is thinking of a number.
One quarter of his number is shown below.


What is Azzam's number?

4b. Hattie says,


Is Hattie correct? Prove it.

5b. Adam collects dinosaurs.
$\frac{1}{4}$ of them are shown below.


Circle the number of dinosaurs that Adam collects altogether.


How do you know?
绿
6b. Solve the word problem below.
Molly is thinking of a number.
One quarter of her number is shown below.


What is Molly's number?



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## Developing

1b. Matt is incorrect because one quarter of 16 is 4 so three quarters is $4+4+4$ which equals 12.
2b. 12 bread rolls in total. One quarter is 3 and three quarters is $3+3+3=9.3+9=$ 12
3b. 8

## Expected

4b. Hattie is incorrect because one quarter of 20 is 5 so three quarters is $5+5$ $+5=15$.
5b. 12 dinosaurs in total. One quarter is 3 and three quarters is $3+3+3=9.3+9=$ 12.

6b. 24

## Greater Depth

7b. Ewan is incorrect because one quarter of 16 is 4 so three quarters is $4+4+4=12$. 8 b . 24 pears in total. One quarter is 6 and three quarters is $6+6+6=18.6+18=24$. 9b. 28

