## Homework/Extension Step 16: Finding the Whole

## National Curriculum Objectives:

Mathematics Year 6: (6F6) Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8] Mathematics Year 6: (6F11) Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

## Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Identify the correct statements. Includes one unit fraction per calculation (using thirds, quarters and tenths). Question includes pictorial support.
Expected Identify the correct statements. Includes one fraction per calculation (up to twelfths). Question includes pictorial support.
Greater Depth Identify the correct statements. Includes two fractions per calculation with different denominators (up to twelfths).

Questions 2, 5 and 8 (Varied Fluency)
Developing Identify the correct representation of a given amount. Includes one unit fraction per calculation (using thirds, quarters and fifths). Question includes pictorial support.
Expected Identify the correct representation of a given amount. Includes one fraction per calculation (up to twelfths). Question includes pictorial support.
Greater Depth Identify the correct representation of a given amount. Includes two fractions per calculation with different denominators (up to twelfths).

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Identify and explain which statement is correct. Includes one unit fraction per calculation (using thirds). Question includes pictorial support.
Expected Identify and explain which statement is correct. Includes one fraction per calculation (up to twelfths).
Greater Depth Identify and explain which statement is correct. Includes two fractions per calculation with different denominators (up to twelfths).

## More Year 6 Fractions resources.

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

## Finding the Whole

## 1. Circle the correct statements.

A. | 500 |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{1}$ |  |  |  |  |  |  |  |
| 55 |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  | of $\mathbf{5 0 0}$ is 55

B.

C.

2. Tick the representation where the whole equals 230.
A.


$$
\frac{1}{4} \text { of } \square \text { is } 56
$$

B.

C.

3. John has spilt some juice on his homework on the way to school. The juice has covered the whole amount and he cannot remember what it is.


John and Louise are discussing what the missing number could be.


I think the missing number is $\mathbf{1 2 5}$

Who is correct? Convince me.

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## Finding the Whole

4. Circle the correct statements.
A.

B.

5. Tick the representation where the whole equals 630 .
A.

B.

C.

6. Alice has spilt some milkshake whilst doing her homework. The milkshake has covered the whole amount and she cannot remember what it is.


Alice and Jack are discussing what the missing number could be.


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## Finding the Whole

7. Circle the correct statements.
A. $\frac{1}{4}+\frac{3}{10}$ of 400 is 220
B.
$\frac{2}{7}+\frac{4}{8}$ of 560 is 440
c. $\frac{3}{12}+\frac{1}{5}$ of 345 is 135
8. Tick the calculation where the whole equals 420.
A.

$$
\frac{2}{5}+\frac{1}{4} \text { of } \square \text { is } 117
$$

B.

$$
\frac{1}{3}+\frac{1}{2} \text { of } \square \text { is } 300
$$

C.

$$
\frac{3}{7}+\frac{2}{10} \text { of } \square \text { is } 264
$$

9. Robert's pen has leaked on his work. The ink has covered the whole amount and he cannot remember what it is.

$$
\frac{1}{4}+\frac{3}{9} \text { of } 168
$$

Robert and Elsie are discussing what the missing number could be.

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## Developing

1. B and C
2. C
3. Louise is correct because $135 \div 3=45$. This means $\frac{1}{3}$ of $135=45$.

## Expected

4. A and C
5. A
6. Jack is correct because $427 \div 7=61$ and $61 \times 12=732$ therefore, $\frac{7}{12}$ of $732=427$.

## Greater Depth

7. A and B
8. C
9. Robert is correct because $\frac{1}{4}+\frac{3}{9}=\frac{7}{12} ; 168 \div 7=24 ; 24 \times 12=288$ therefore, $\frac{1}{4}+\frac{3}{9}$ of $288=168$.
