## Varied Fluency 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:

Developing Questions to support finding the whole amount from a known fraction. Includes one unit fraction per calculation (using halves, thirds, quarters, fiffhs and tenths). Each question has pictorial support.
Expected Questions to support finding the whole amount from a known fraction. Includes one fraction per calculation (up to twelfths). Some use of bar models.
Greater Depth Questions to support finding the whole amount from a known fraction. 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.

1a．Kyra buys 1 slice of pizza for 60p．


How much does the whole pizza cost？


2a．Ben lost 42 sweets when the bag burst open．

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| :---: | :---: | :---: | :---: | :---: |
| ？ |  |  |  |  |

He worked out that he had lost $\frac{1}{5}$ of the
sweets he began with．
Circle the number of sweets Ben had before the bag burst open．


Is Phoebe correct？


4a．A junior school used $\frac{1}{10}$ of their pens
in the Autumn term．
They used a total of 95 pens．


How many pens did they have in stock to begin with？

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1b．Jake buys 1 slice of pie for 70p．


How much does the whole pie cost？吅
2b．Class 6C gave 75 brownies to the school bake sale．


They worked out that they had given $\frac{1}{3}$ of the brownies they had baked．

Circle the number of brownies class 6C baked in total．


3b．Dan is completing this statement．

$$
\frac{1}{5} \text { of } \square \text { is } 85
$$



I think the missing number is more than 400.

Is Dan correct？

4b．A shop sold $\frac{1}{4}$ of their supply of crisps
in October．
They sold a total of 79 packets of crisps．

| $\phi$ | $\otimes$ | $\otimes$ | $\otimes$ |  |
| :--- | :--- | :--- | :--- | :---: |
| $?$ |  |  |  |  |

How many packets of crisps did the shop have to begin with？


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5a. Evie buys 4 slices of cake for $£ 2.40$.


How much does the whole cake cost?

6a. A toy shop sold 210 train sets during a sale.


They worked out that they had sold $\frac{3}{8}$ of the train sets they began with.

Circle the number of train sets they had before the sale.

| 7 a . Tom is completing this statement. |
| :--- |
| $\frac{7}{12}$ of $\square$ is 560 . |
| I think the missing number <br> is more than 700. |

Is Tom correct?

8a. A restaurant sold $\frac{3}{5}$ of their pizza stock in January.

They sold a total of 330 pizzas.


How many pizzas did they have in stock to begin with?


5b. Ali buys 3 pieces of pie for $£ 2.70$


How much does the whole pie cost?

6b. A farmer lost 600 tomatoes when they were destroyed in a flood.

She worked out that she had lost $\frac{5}{6}$ of the tomatoes she began with.

Circle the number of tomatoes she had before the flood.

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$$

7b. Amy is completing this statement.

$$
\frac{2}{7} \text { of } \square \text { is } 240 .
$$



I think the missing number is less than 800.

Is Amy correct?

8b. A farm bought $\frac{4}{9}$ of their neighbours
lambs in spring. lambs in spring.

They bought a total of $\mathbf{3 2 0}$ lambs.


How many lambs did the farm have to begin with?

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## Developing

1a. £2.40
2a. 210 sweets
3a. Phoebe is incorrect, it equals 320.
4a. 950 pens

## Expected

5a. £3.60
5a. 560 train sets
7a. Tom is correct, it equals 960.
8 a. 550 pizzas
Greater Depth
9a. £6.40
10a. 1,080 tickets
11 a. Leah is incorrect, it equals 720.
12a. 1,200 packets of biscuits

## Developing

1b. £3.50
2b. 225 brownies
3b. Dan is correct, it equals 425.
4b. 316 packets of crisps

## Expected

4b. £6. 30
5b. 720 tomatoes
7b. Amy is incorrect, it equals 840.
8b. 720 lambs

## Greater Depth

9b. £8.10
10b. $1,320 \mathrm{ml}$
11b. George is correct, it equals 1,100.
12b. 720 potatoes

