## Varied Fluency

## Step 9: Hundredths on a Place Value Grid

## National Curriculum Objectives:

Mathematics Year 4: (4F1) Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten

## Differentiation:

Developing Questions to support recognising and representing tenths and hundredths using place value charts and partitioning. Using decimals only and all numbers less than 1 whole.
Expected Questions to support recognising and representing tenths and hundredths using place value charts and partitioning. Using a mixture of fractions and decimals, and some numbers greater than 1 whole.
Greater Depth Questions to support recognising and representing tenths and hundredths using place value charts and partitioning. Using some improper and equivalent fractions, decimals and all numbers greater than 1 whole.

## More Year 4 Decimals resources.

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

1a. Draw counters to make the following values on the place value grids below.
0.24


| Ones | Tenths | Hundredths |  |
| :---: | :---: | :---: | :---: |
| 0.05 |  |  |  |
|  |  |  |  |
|  |  |  |  |

2a. Match the place value chart to the decimal.

A. | Ones | 0 | Tenths | Hundredths |
| :---: | :---: | :---: | :---: |
|  |  | 0 |  |
|  |  |  |  |

B.


C

$\underset{\sim}{0} 0.310 .150 .73$

3a. Use the part whole model to partition 0.45 .


4a. Draw counters to make the following values on the place value grids below.

|  | Ones | Tenths | Hundredths |
| :---: | :---: | :---: | :---: |
| $\frac{3}{100}$ |  |  |  |
|  | Ones | Tenths | Hundredths |
| 1.45 |  |  |  |

5a. Match the place value chart to the correct number.
A.

B.

c.


$$
\frac{1}{100} 0.21 \quad 0.52
$$

6a. Use the part whole models to find two different ways to partition 0.85 .

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7a. Draw counters to make the following values on the place value grids below.

| Ones Tenths Hundredths <br> 142   |
| :--- |
| Ones Tenths Hundredths <br>    |

8a. Match the place value chart to the correct number.
A.

B.

C.

1.13
1.31

9a. Use the part whole models to find three different ways to partition 1.5.


7b. Draw counters to make the following values on the place value grids below.

| Ones Tenths Hundredths <br> $\frac{121}{100}$   <br>  Ones Tenths |
| :--- |
| 2.08 |

8b. Match the place value chart to the correct number.

A. | Ones | Tenths | Hundredths |
| :---: | :---: | :---: |
| $\bigcirc$ |  |  |

B.

C.

1.12
1.02

121 100

9b. Use the part whole models to find three different ways to partition 1.79.


# Varied Fluency 

## Varied Fluency

Hundredths on a Place Value Grid

## Developing

1a. First chart: Two in the tenths column and four in the hundredths column. Second chart: Five in the hundredths column.

2a. $A$ is $0.73, B$ is 0.31 and $C$ is 0.15 .
3a. 0.05.

## Expected

4a. First chart: Three in the hundredths column.

Second chart: One in the ones column, four in the tenths column and five in the hundredths column.
$5 a$. $A$ is $1.21, B$ is $\frac{1}{100}$ and $C$ is 0.52 .
6a. 0.8 and $\frac{8}{10}$.

## Greater Depth

7a. First chart: One in the ones column, four in the tens column and two in the hundredths column.

Second chart: One in the ones column and three in the hundredths column.
8 a . $A$ is $\frac{1}{10}, B$ is 1.31 and $C$ is 1.13 .
9 a. $0.45 ; \frac{14}{10}$ or $\frac{140}{100}$ and $\frac{13}{10}$ or $\frac{130}{100}$.

## Developing

1b. First chart: Eight in the hundredths column.

Second chart: Two in the tenths column and one in the hundredths column.
$2 b$. $A$ is $0.24, B$ is 0.12 and $C$ is 0.33 .
3b. 0.02.

## Expected

4b. First chart: One in the ones column, two in the tenths column and one in the hundredths column.

Second chart: Two in the hundredths column.
5b. $A$ is $0.3, B$ is 1.41 and $C$ is $\frac{3}{100}$. 6b. 0.09 and $\frac{9}{100}$.

## Greater Depth

7b. First chart: One in the ones column, two in the tenths column and one in the hundredths column.

Second chart: Two in the ones column, and eight in the hundredths column.
$8 b$. $A$ is $\frac{121}{100}, B$ is 1.02 and $C$ is 1.12 .
9b. $0.09 ; \frac{9}{100}$ and $\frac{16}{10}$.

