

Varied Fluency

Step 8: Hundredths as Decimals

National Curriculum Objectives:

Mathematics Year 4: (4F6b) [Recognise and write decimal equivalents of any number of tenths or hundredths](#)

Differentiation:

Developing Questions to support recognising hundredths as a decimal (in numbers smaller than one where there are always digits in the tenths and hundredths columns, excluding zero), with visual support.

Expected Questions to support recognising hundredths as a decimal (in numbers smaller than one where there are always digits in the tenths and hundredths columns, including using zero as a placeholder), with some visual support.

Greater Depth Questions to support recognising hundredths as a decimal (in numbers greater than one where there are always digits in the tenths and hundredths columns, including using zero as a placeholder), with no visual support.

More [Year 4 Decimals](#) resources.

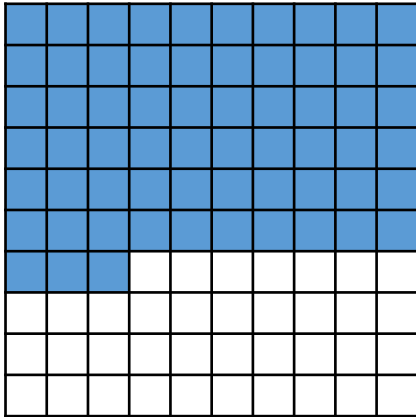
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Hundredths as Decimals

Hundredths as Decimals

1a. Which number is represented below?

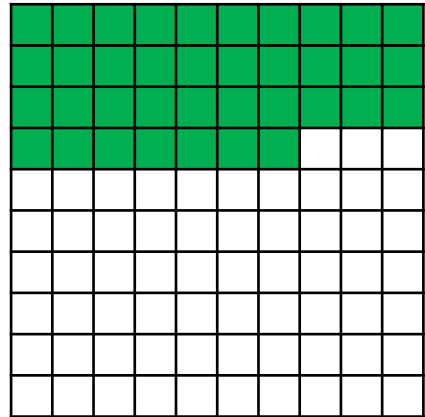
- A. 0.6 B. 0.63 C. 0.37



VF

1b. Which number is represented below?

- A. 0.73 B. 3.7 C. 0.37



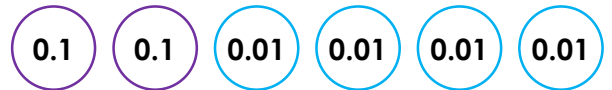
VF

2a. True or false? The following place value counters are equivalent to 0.52.



VF

2b. True or false? The following place value counters are equivalent to 0.24.



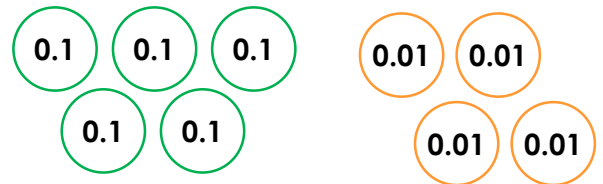
VF

3a. What decimal number is represented by the place value counters below?



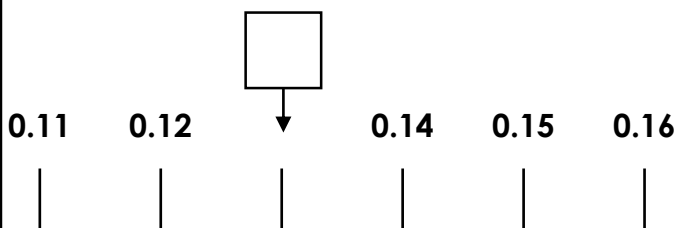
VF

3b. What decimal number is represented by the place value counters below?



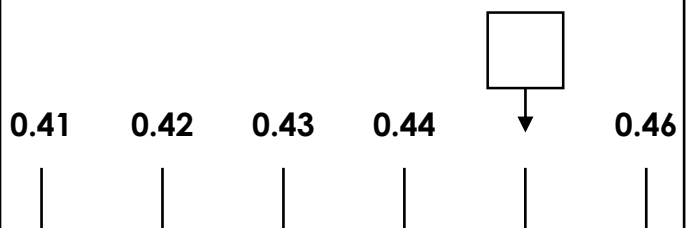
VF

4a. What number goes in the box below?



VF

4b. What number goes in the box below?



VF

Hundredths as Decimals

Hundredths as Decimals

5a. Match the equivalent values.

fifteen hundredths

$$\frac{47}{100}$$

0.09

$$\frac{12}{100}$$

0.47

0.1 0.01 0.01

0.15

$$\frac{9}{100}$$



VF

5b. Match the equivalent values.

0.61

$$\frac{24}{100}$$

0.04

$$\frac{33}{100}$$

0.33

sixty-one hundredths

twenty-four hundredths

0.01 0.01 0.01 0.01



VF

6a. True or false?

0.3 is equivalent to three hundredths.



VF

6b. True or false?

Five hundredths is equivalent to 0.05.



VF

7a. Convert the hundredths to decimals.

$$\frac{25}{100}$$

$$\frac{89}{100}$$

$$\frac{6}{100}$$



VF

7b. Convert the hundredths to decimals.

$$\frac{71}{100}$$

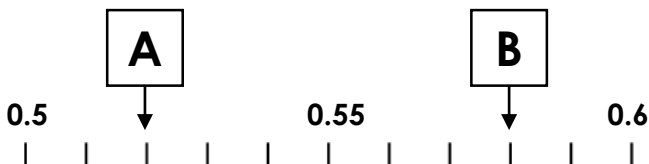
$$\frac{8}{100}$$

$$\frac{44}{100}$$



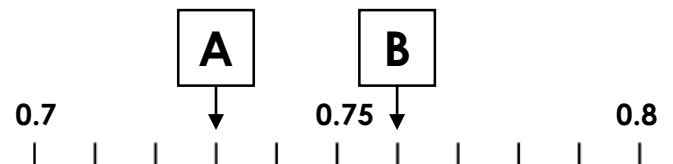
VF

8a. What numbers go in the boxes below?



VF

8b. What numbers go in the boxes below?



VF

Hundredths as Decimals

Hundredths as Decimals

9a. Match the equivalent values.

seven hundredths

$$\frac{170}{100}$$

1.04

$$\frac{249}{100}$$

2.49

one and four hundredths

0.07

1.70



VF

9b. Match the equivalent values.

2.12

$$\frac{36}{100}$$

3.58

$$\frac{122}{100}$$

1.22

212 hundredths

thirty-six hundredths

$$\frac{358}{100}$$



VF

10a. True or false?

1.07 is equivalent to seventy one hundredths.



VF

10b. True or false?

$\frac{286}{100}$ is equivalent to 2.68.



VF

11a. Convert the hundredths to decimals.

1 and $\frac{25}{100}$

2 and $\frac{89}{100}$

$\frac{6}{100}$



VF

11b. Convert the hundredths to decimals.

2 and $\frac{4}{100}$

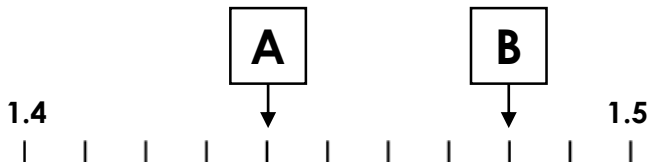
$\frac{44}{100}$

3 and $\frac{20}{100}$



VF

12a. What numbers go in the boxes below?



VF

12b. What numbers go in the boxes below?



VF

Varied Fluency Hundredths as Decimals

Developing

- 1a. **0.63**
2a. **False, they are equivalent to 0.25.**
3a. **0.35**
4a. **0.13**

Expected

- 5a. **Fifteen hundredths = $\frac{15}{100}$
 $\frac{47}{100} = 0.47$,
 $0.09 = \frac{9}{100}$
 $\frac{12}{100} = 0.1 + 0.01 + 0.01$**
6a. **False, 0.3 is equivalent to three tenths.**
7a. **0.25; 0.89; 0.06**
8a. **A = 0.52, B = 0.58**

Greater Depth

- 9a. **Seven hundredths = 0.07, $\frac{170}{100} = 1.70$
1.04 = one and four hundredths
 $\frac{249}{100} = 2.49$**
10a. **False, 1.07 is equivalent to one hundred and seven hundredths.**
11a. **1.25; 2.89; 0.06**
12a. **A = 1.44, B = 1.48**

Varied Fluency Hundredths as Decimals

Developing

- 1b. **0.37**
2b. **True**
3b. **0.54**
4b. **0.45**

Expected

- 5b. **0.61 = sixty-one hundredths
 $\frac{24}{100} =$ twenty-four hundredths
 $0.04 = 0.01 + 0.01 + 0.01 + 0.01$
 $\frac{33}{100} =$ thirty-three hundredths**
6b. **True**
7b. **0.71; 0.08; 0.44**
8b. **A = 0.73, B = 0.76**

Greater Depth

- 9b. **2.12 = 212 hundredths
 $\frac{36}{100} =$ thirty-six hundredths
 $3.58 = \frac{358}{100}, \frac{122}{100} = 1.22$**
10b. **False, $\frac{268}{100}$ is equivalent to 2.68.**
11b. **2.04; 0.44; 3.20**
12b. **A = 1.90, B = 1.95**