

# Varied Fluency

## Step 10: 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 3 and 4 Fractions and Decimals](#) resources.

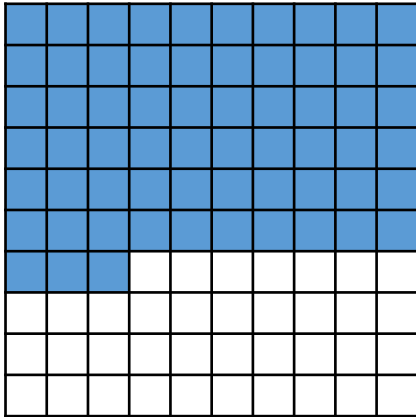
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# Hundredths as Decimals

# Hundredths as Decimals

1a. Which number is represented below?

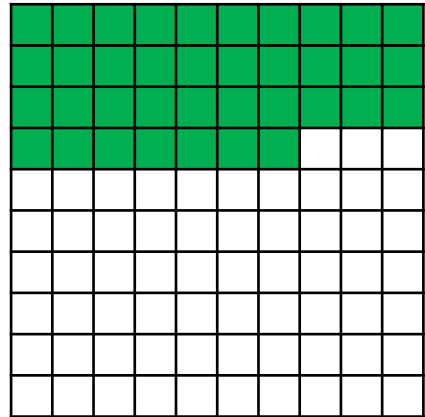
- A. 0.6      B. 0.63      C. 0.37



4 VF

1b. Which number is represented below?

- A. 0.73      B. 3.7      C. 0.37



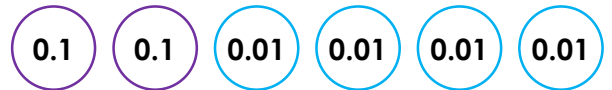
4 VF

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



4 VF

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



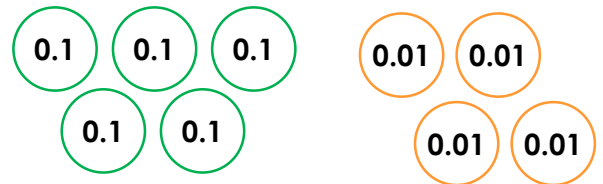
4 VF

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



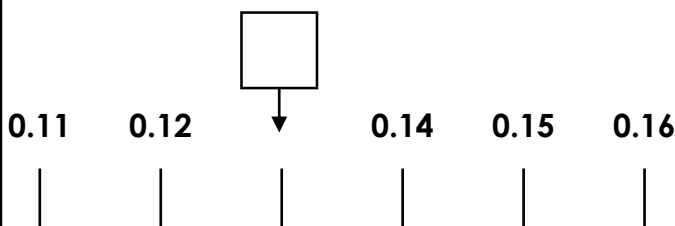
4 VF

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



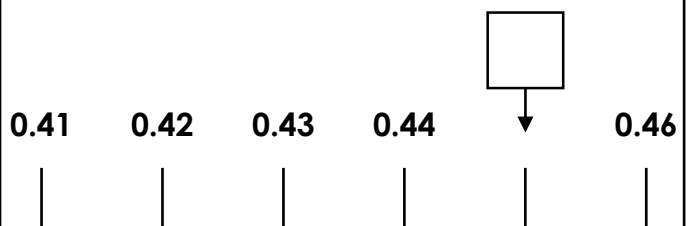
4 VF

4a. What number goes in the box below?



4 VF

4b. What number goes in the box below?



4 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

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



4 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



4 VF

6a. True or false?

0.3 is equivalent to three hundredths.



4 VF

6b. True or false?

Five hundredths is equivalent to 0.05.



4 VF

7a. Convert the hundredths to decimals.

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

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

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



4 VF

7b. Convert the hundredths to decimals.

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

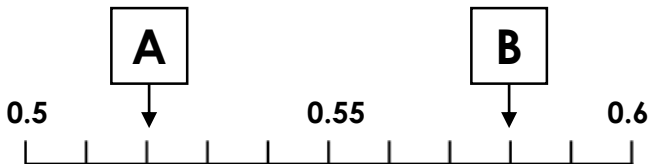
$$\frac{8}{100}$$

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



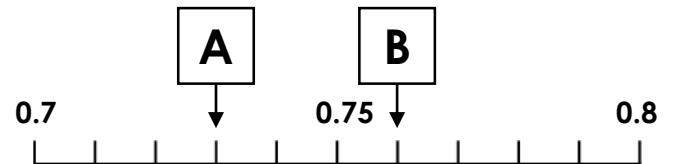
4 VF

8a. What numbers go in the boxes below?



4 VF

8b. What numbers go in the boxes below?



4 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**