

Varied Fluency

Step 9: Hundredths

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](#)

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

Differentiation:

Developing Questions to support recognising hundredths as dividing one whole into 100 equal parts. Includes counting forwards in one hundredths. Images used for support.

Expected Questions to support recognising hundredths as dividing one whole into 100 equal parts and that one tenth is ten hundredths. Includes counting forwards and backwards in one hundredths and recognising equivalent tenths. Images used for support.

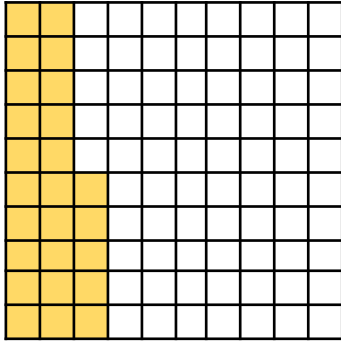
Greater Depth Questions to support recognising hundredths as dividing one whole into 100 equal parts and that one tenth is ten hundredths. Includes counting forwards and backwards in intervals greater than one hundredth and recognising equivalent tenths. Includes unconventional partitioning and fewer images for support.

More [Year 3 and Year 4 Fractions and Decimals](#) resources.

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

Hundredths

1a. How many hundredths are represented on the hundred square below?

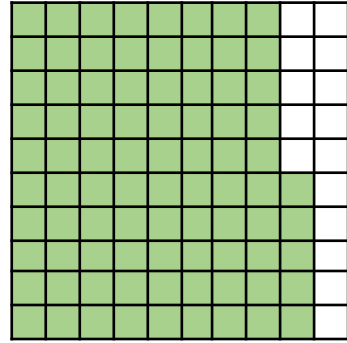


- ★
 A. $\frac{25}{100}$ B. $\frac{25}{10}$ C. $\frac{75}{100}$

4 VF

Hundredths

1b. How many hundredths are represented on the hundred square below?



- ★
 A. $\frac{15}{100}$ B. $\frac{85}{10}$ C. $\frac{85}{100}$

4 VF

2a. True or false?
The following sequences are correct.

A. $\frac{5}{100}$, $\frac{6}{100}$, $\frac{7}{100}$, $\frac{8}{100}$

B. $\frac{10}{100}$, $\frac{9}{100}$, $\frac{12}{100}$, $\frac{13}{100}$



4 VF

2b. True or false?
The following sequences are correct.

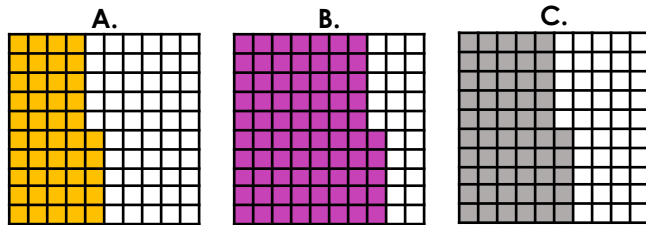
A. $\frac{1}{100}$, $\frac{12}{100}$, $\frac{3}{100}$, $\frac{4}{100}$

B. $\frac{15}{100}$, $\frac{16}{100}$, $\frac{17}{100}$, $\frac{18}{100}$



4 VF

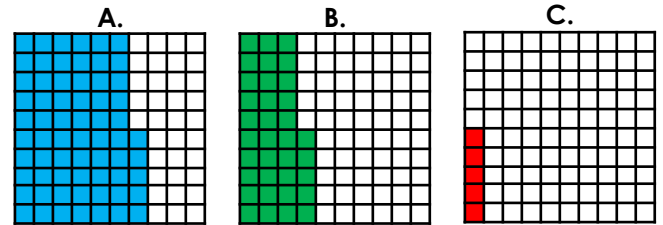
3a. Match each image to an equivalent hundredth.



- ★
 55 hundredths 45 hundredths 75 hundredths

4 VF

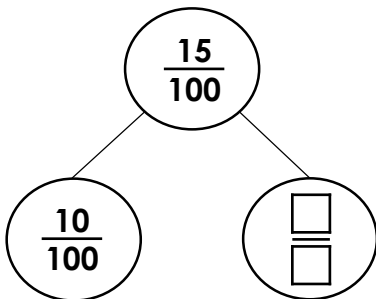
3b. Match each image to an equivalent hundredth.



- ★
 35 hundredths 5 hundredths 65 hundredths

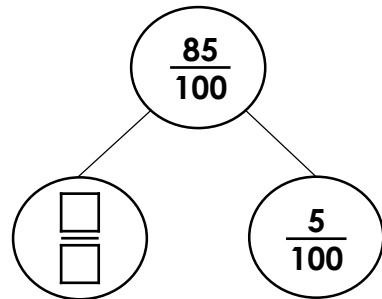
4 VF

4a. Complete the missing values.



4 VF

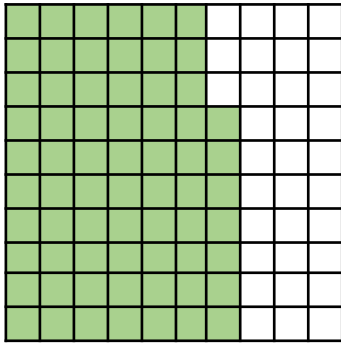
4b. Complete the missing values.



4 VF

Hundredths

5a. How many hundredths are represented on the hundred square below?

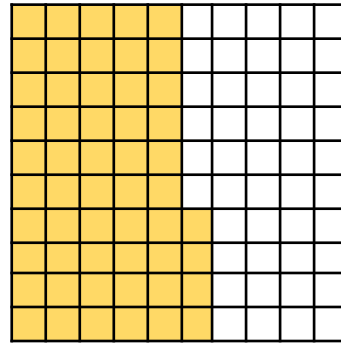


- A. $\frac{67}{10}$ B. $\frac{33}{100}$ C. $\frac{67}{100}$

4 VF

Hundredths

5b. How many hundredths are represented on the hundred square below?



- A. $\frac{46}{100}$ B. $\frac{54}{100}$ C. $\frac{46}{10}$

4 VF

6a. True or false?
The following sequences are correct.

A. $\frac{26}{100}$, $\frac{27}{100}$, $\frac{28}{100}$, $\frac{30}{100}$

B. $\frac{82}{100}$, $\frac{81}{100}$, $\frac{80}{100}$, $\frac{79}{100}$



4 VF

6b. True or false?
The following sequences are correct.

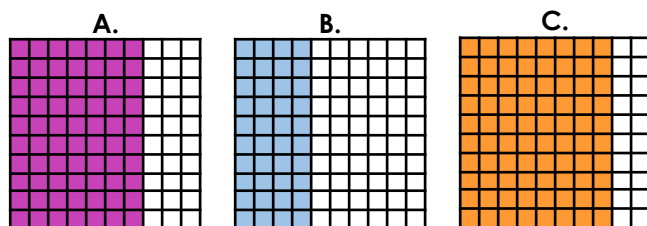
A. $\frac{88}{100}$, $\frac{89}{100}$, $\frac{90}{100}$, $\frac{91}{100}$

B. $\frac{61}{100}$, $\frac{50}{100}$, $\frac{59}{100}$, $\frac{58}{100}$



4 VF

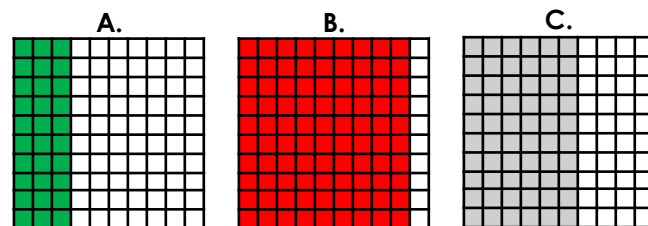
7a. Match each image to an equivalent tenth.



$\frac{8}{10}$ $\frac{7}{10}$ $\frac{4}{10}$

4 VF

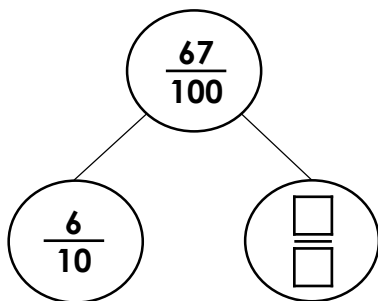
7b. Match each image to an equivalent tenth.



$\frac{9}{10}$ $\frac{6}{10}$ $\frac{3}{10}$

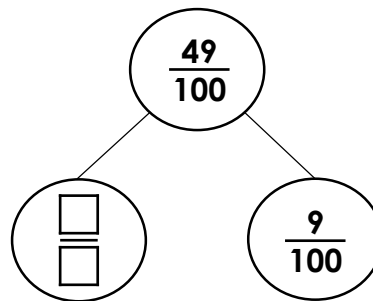
4 VF

8a. Complete the missing values.



4 VF

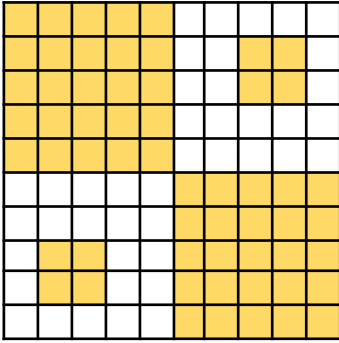
8b. Complete the missing values.



4 VF

Hundredths

9a. How many hundredths are represented on the hundred square below?



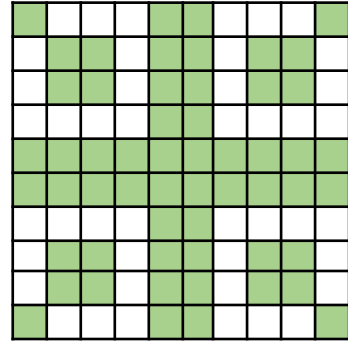
Record your answer as a fraction.



4 VF

Hundredths

9b. How many hundredths are represented on the hundred square below?



Record your answer as a fraction.



4 VF

10a. True or false?

The following sequences are correct.

A. $\frac{46}{100}$, $\frac{48}{100}$, $\frac{50}{100}$, $\frac{52}{100}$

B. $\frac{58}{100}$, $\frac{54}{100}$, $\frac{50}{100}$, $\frac{48}{100}$



4 VF

10b. True or false?

The following sequences are correct.

A. $\frac{73}{100}$, $\frac{75}{100}$, $\frac{77}{100}$, $\frac{80}{100}$

B. $\frac{99}{100}$, $\frac{95}{100}$, $\frac{91}{100}$, $\frac{87}{100}$



4 VF

11a. Record these hundredths as equivalent tenth.

A. $\frac{60}{100} = \frac{\square}{10}$

B. $\frac{50}{100} = \frac{\square}{10}$

C. $\frac{90}{100} = \frac{\square}{10}$

D. $\frac{10}{100} = \frac{\square}{10}$



4 VF

11b. Record these hundredths as equivalent tenth.

A. $\frac{30}{100} = \frac{\square}{10}$

B. $\frac{80}{100} = \frac{\square}{10}$

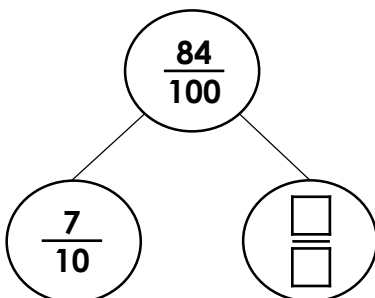
C. $\frac{70}{100} = \frac{\square}{10}$

D. $\frac{20}{100} = \frac{\square}{10}$



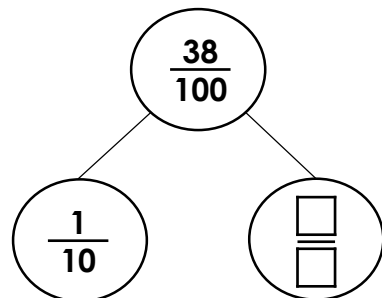
4 VF

12a. Complete the missing values.



4 VF

12b. Complete the missing values.



4 VF

Varied Fluency Hundredths

Developing

- 1a. **A**
- 2a. **A – true, B – false, the second fraction should be $\frac{11}{100}$**
- 3a. **A = 45 hundredths, B = 75 hundredths, C = 55 hundredths**
- 4a. $\frac{5}{100}$

Expected

- 5a. **C**
- 6a. **A – false, the fourth fraction should be $\frac{29}{100}$, B – true**
- 7a. **A = $\frac{7}{10}$, B = $\frac{4}{10}$, C = $\frac{8}{10}$**
- 8a. $\frac{7}{100}$

Greater Depth

- 9a. $\frac{58}{100}$
- 10a. **A – true, B – false, the fourth fraction should be $\frac{46}{100}$**
- 11a. **A = $\frac{6}{10}$, B = $\frac{5}{10}$, C = $\frac{9}{10}$, D = $\frac{1}{10}$**
- 12a. $\frac{14}{100}$

Varied Fluency Hundredths

Developing

- 1b. **C**
- 2b. **A – false, the second fraction should be $\frac{2}{100}$, B – true**
- 3b. **A = 65 hundredths, B = 35 hundredths, C = 5 hundredths**
- 4b. $\frac{80}{100}$

Expected

- 5b. **B**
- 6b. **A – true, B – false, the second fraction should be $\frac{60}{100}$**
- 7b. **A = $\frac{3}{10}$, B = $\frac{9}{10}$, C = $\frac{6}{10}$**
- 8b. $\frac{4}{10}$

Greater Depth

- 9b. $\frac{56}{100}$
- 10b. **A – false, the fourth fraction should be $\frac{79}{100}$, B – true**
- 11b. **A = $\frac{3}{10}$, B = $\frac{8}{10}$, C = $\frac{7}{10}$, D = $\frac{2}{10}$**
- 12b. $\frac{28}{100}$