

Step 3: Decimals as Fractions 2

Introduction

Match the decimals below to their expanded forms.

0.68

$8 + 0.06$

6.08

$6 + 0.8$

8.6

$0.6 + 0.08$

8.06

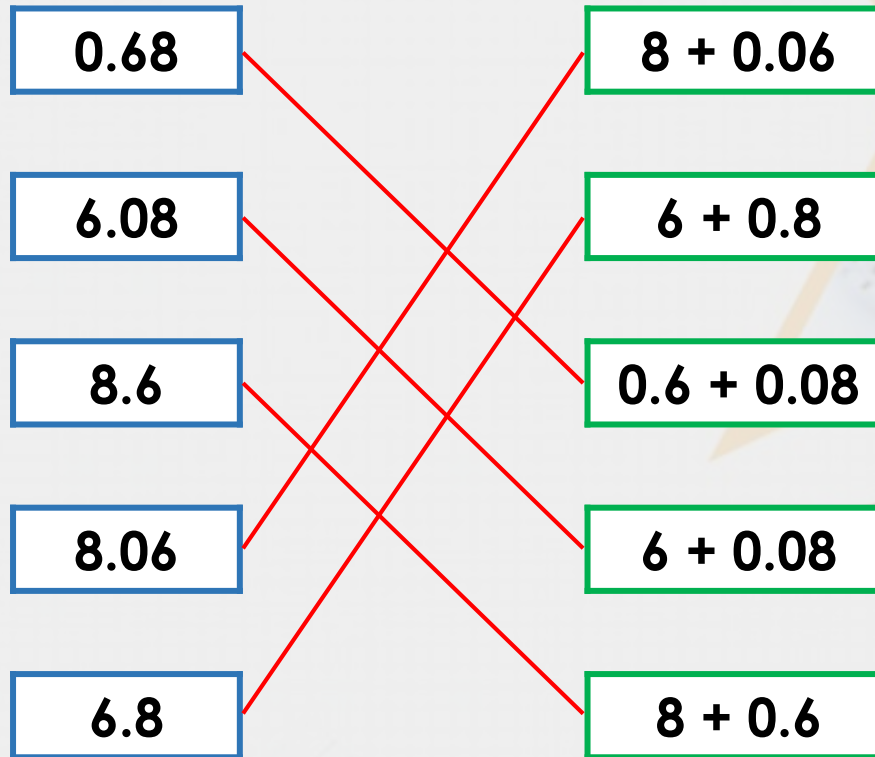
$6 + 0.08$

6.8

$8 + 0.6$

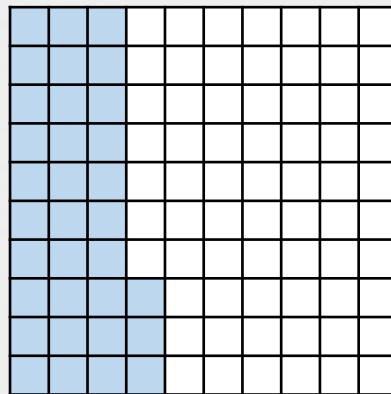
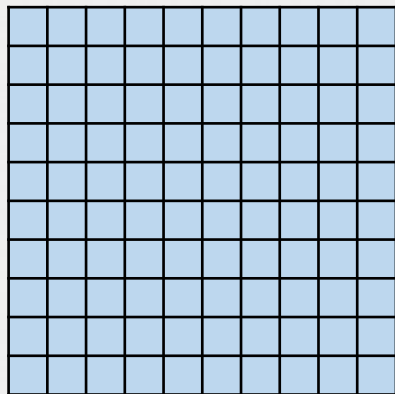
Introduction

Match the decimals below to their expanded forms.



Varied Fluency 1

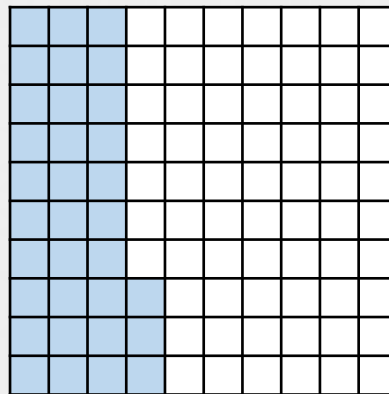
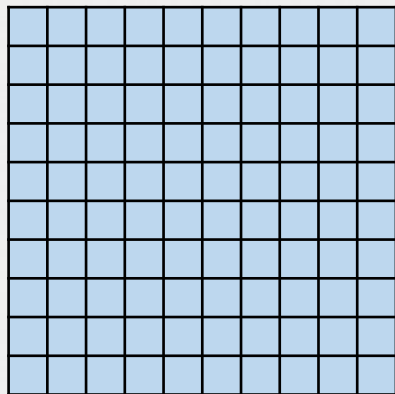
Circle the fraction that is represented by the image below.



- A. $1 \frac{33}{10}$ B. $1 \frac{3}{100}$ C. $1 \frac{33}{100}$

Varied Fluency 1

Circle the fraction that is represented by the image below.



A. $1 \frac{33}{10}$

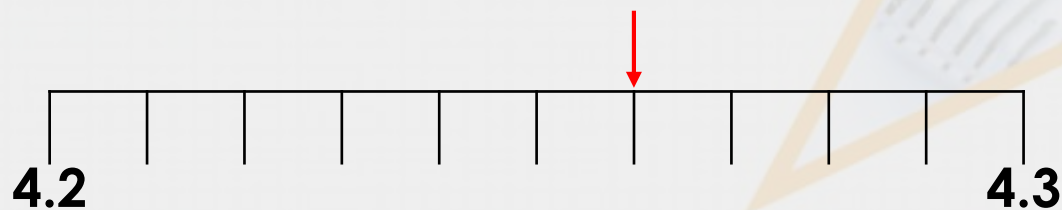
B. $1 \frac{3}{100}$

C. $1 \frac{33}{100}$

Varied Fluency 2

True or false? The arrow is pointing to

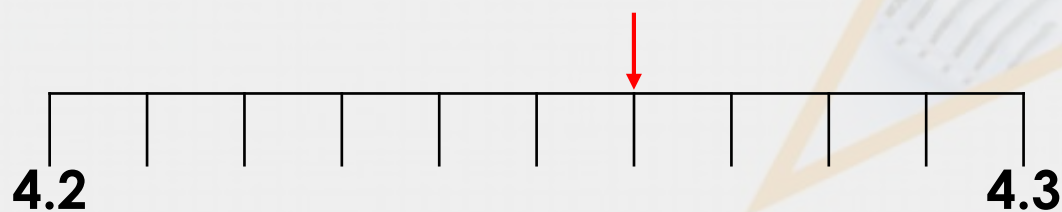
$4\frac{26}{100}$ on the number line.



Varied Fluency 2

True or false? The arrow is pointing to

$4\frac{26}{100}$ on the number line.



True

Varied Fluency 3

Match the decimal number to the equivalent expanded fraction.

4.46

$$4 + \frac{6}{10} + \frac{4}{100}$$

4.64

$$4 + \frac{6}{10} + \frac{6}{100}$$

4.66

$$4 + \frac{4}{10} + \frac{6}{100}$$

Varied Fluency 3

Match the decimal number to the equivalent expanded fraction.

4.46

$$4 + \frac{6}{10} + \frac{4}{100}$$

4.64

$$4 + \frac{6}{10} + \frac{6}{100}$$

4.66

$$4 + \frac{4}{10} + \frac{6}{100}$$

Varied Fluency 4

Convert these decimals to expanded fractions and fractions to expanded decimals.

A. 2.09

B. $4\frac{2}{10}$

C. 6.8

D. $5\frac{62}{100}$

Varied Fluency 4

Convert these decimals to expanded fractions and fractions to expanded decimals.

$$\text{A. } 2.09 = 2 + \frac{9}{100}$$

$$\text{B. } 4\frac{2}{10} = 4 + 0.2$$

$$\text{C. } 6.8 = 6 + \frac{8}{10}$$

$$\text{D. } 5\frac{62}{100} = 5 + 0.6 + 0.02$$

Reasoning 1

Spot the odd one out.

A.

$$9\frac{27}{100}$$

B.

$$9 + \frac{2}{100} + \frac{7}{100}$$

C.

$$9 + 0.2 + 0.07$$

D.

$$9.27$$

Explain your answer.

Reasoning 1

Spot the odd one out.

A.

$$9\frac{27}{100}$$

B.

$$9 + \frac{2}{100} + \frac{7}{100}$$

C.

$$9 + 0.2 + 0.07$$

D.

$$9.27$$

Explain your answer.

B is the odd one out because...

Reasoning 1

Spot the odd one out.

A.

$$9\frac{27}{100}$$

B.

$$9 + \frac{2}{100} + \frac{7}{100}$$

C.

$$9 + 0.2 + 0.07$$

D.

$$9.27$$

Explain your answer.

B is the odd one out because all of the others are equivalent to 9.27

or $9\frac{27}{100}$.

Problem Solving 1

Malcolm thinks he can write the following decimal number in at least 4 different ways.

7.63

Prove it.

Problem Solving 1

Malcolm thinks he can write the following decimal number in at least 4 different ways.

7.63

Prove it.

Various answers that include words, decimals, expanded decimal or fractions and unconventional partitioning. e.g.

$7 + 0.6 + 0.03$, $7 + 0.63$, 7 tens + 6 tenths + 3 hundredths

$7 + \frac{6}{10} + \frac{3}{100}$, $7\frac{63}{100}$ etc.

Reasoning 2

**Cally has been converting fractions and decimals.
She says,**



**4 ones, 7 tenths and 6
hundredths can be
converted to $47\frac{6}{10}$.**

Is she correct? Explain why.

Reasoning 2

**Cally has been converting fractions and decimals.
She says,**



**4 ones, 7 tenths and 6
hundredths can be
converted to $47\frac{6}{10}$.**

Is she correct? Explain why.

Cally is incorrect because...

Reasoning 2

Cally has been converting fractions and decimals.
She says,



4 ones, 7 tenths and 6 hundredths can be converted to $47\frac{6}{10}$.

Is she correct? Explain why.

Cally is incorrect because 4 ones, 7 tenths and 6 hundredths = $4\frac{76}{100}$.