## Wednesday $15^{\text {th }}$ April Fractions to Decimals 2

Match each fraction to the correct equivalent decimal.


## Match each fraction to the correct equivalent decimal.



Remember a fraction is a division sum so:

$$
1 / 5=1 \text { divided by } 5
$$

## Varied Fluency 1

Complete the calculation to convert the fraction below to a decimal.
$\frac{1}{8}$
$8 \longdiv { 1 \cdot 0 ^ { 2 } } { } ^ { 2 } 0 ^ { 4 } 0$

## Varied Fluency 1

Complete the calculation to convert the fraction below to a decimal.

$8 \longdiv { 1 \cdot 0 ^ { 1 } 0 ^ { 2 } 0 ^ { 4 } 0 }$

The top(numerator) divided by the bottom (denominator)

$$
2 / 5=2 \text { divided by } 5
$$

Use the bus stop method/then a calculator to check if you like.

## Varied Fluency 2

Match the fraction to the correct decimal. Decimals are rounded to three decimal places where necessary.
A) 0.878
$\frac{8}{9}$
B) 0.889
C) 0.088

## Varied Fluency 2

Match the fraction to the correct decimal. Decimals are rounded to three decimal places where necessary.

## A) 0.878

$\frac{8}{9}$
B) 0.889
C) 0.088

## Varied Fluency 3

## True or false?

$\frac{5}{7}$ is equivalent to 0.704 when written to three decimal places.

## Varied Fluency 3

## True or false?

$\frac{5}{7}$ is equivalent to 0.704 when written to three decimal places.

False. The answer is 0.714 .

## Varied Fluency 4

Write the following fractions as decimals. Round to three decimal places where necessary.

$$
\begin{array}{lll}
\frac{3}{7} & \frac{2}{9} & \frac{1}{7}
\end{array}
$$

## Varied Fluency 4

Write the following fractions as decimals. Round to three decimal places where necessary.

$$
\begin{array}{ccc}
\frac{3}{7} & \frac{2}{9} & \frac{1}{7} \\
0.429 & 0.222 & 0.143
\end{array}
$$

# Before you can compare turn them both to the same format. 

Convert them all to decimals or fractions if you wish.

You have been doing decimals so you would find this easier.

## Problem Solving 1

Use $>,<$ or $=$ to compare the fractions and decimals below.
A) $\frac{3}{9} \quad 0.444$
B) $\frac{1}{6} \quad 0.159$

## Problem Solving 1

Use $>,<$ or $=$ to compare the fractions and decimals below.
A) $\frac{3}{9} \quad<0.444$
B) $\frac{1}{6} \quad>0.159$

## Problem Solving 2

Convert the fractions to decimals. Round decimals to three decimal places where necessary.

$$
\begin{array}{llll}
\text { A) } \frac{2}{7} & \text { B) } 0.199 & \text { C) } \frac{4}{6} & \text { D) } 0.566
\end{array}
$$

Now order them from smallest to largest.

## Rounding decimals

Rounding to 1 dp
$2.34567=2.3$ the 4 does not make you round up.

Rounding to 2 dp
$2.34567=2.35$ the following 5 made you round up

Rounding to 3 dp
$2.34567=2.346$ the following 6 make you round the previous 5 up

## Problem Solving 2

Convert the fractions to decimals. Round decimals to three decimal places where necessary.

$$
\begin{array}{llll}
\text { A) } \frac{2}{7} & \text { B) } 0.199 & \text { C) } \frac{4}{6} & \text { D) } 0.566
\end{array}
$$

Now order them from smallest to largest.
A) 0.286
B) 0.199
C) 0.667
D) 0.566

## Reasoning 1

Holly converts a fraction to a decimal and rounds it to three decimal places. She says,


Is she correct?
Convince me.

## Reasoning 1

Holly converts a fraction to a decimal and rounds it to three decimal places. She says,


Is she correct?
Convince me.
Holly is incorrect because...

## Reasoning 1

Holly converts a fraction to a decimal and rounds it to three decimal places. She says,


Is she correct?
Convince me.
Holly is incorrect because $\frac{5}{6}$ is equivalent to 0.833 when rounded to 3 decimal places.

## Developing



2a. Convert the fractions to decimals.
A) $\frac{3}{5}$
B) 0.5
C) $\frac{4}{10}$
D) 0.8

Now order them from smallest to largest.
㙁 6

3a. Susie is converting a fraction to a decimal. Her working out is shown below.


Is she correct?
Convince me.

2b. Convert the fractions to decimals.

$$
\begin{array}{llll}
\text { A) } \frac{6}{10} & \text { B) } 0.9 & \text { C) } \frac{1}{5} & \text { D) } 0.7
\end{array}
$$

Now order them from largest to smallest.


3b. Ant is converting a fraction to a decimal. His working out is shown below.


Is he correct?
Convince me.

## Expected

| 5a．Complete the calculation to convert the fraction below to a decimal． | 5b．Complete the calculation to convert the fraction below to a decimal． |
| :---: | :---: |
| $\begin{array}{ll\|lll} \frac{5}{8} & 8 & 5 \cdot{ }^{5} 0 & { }^{2} 0 & { }^{4} 0 \end{array}$ | $\begin{array}{ll\|llll} \frac{7}{8} & 8 & 7 & \cdot{ }^{7} 0 & { }^{6} 0 & { }^{4} 0 \end{array}$ |
| 瓦 6 VF | 瓦 6 vF |
| 6a．Match the fraction to the correct decimal．Decimals have been written to three decimal places． | 6b．Match the fraction to the correct decimal．Decimals have been written to three decimal places． |
| A） 0.621 | A） 0.853 |
| $\begin{array}{ll}\frac{4}{7} & \text { B）} 0.571\end{array}$ | $\begin{array}{ll}\frac{5}{6} & \text { B）} 0.844\end{array}$ |
| C） 0.581 | C） 0.833 |
| $\hat{\text { 人 }}$ | $\wedge$（ 0.833 |

5a. Convert the fractions to decimals. Round to three decimal places where necessary.
A) $\frac{5}{9}$
B) 0.774
C) $\frac{1}{6}$
D) 0.596

Now order them from smallest to largest.


6a. Jasmine converts a fraction to a decimal and rounds it to three decimal places. She says,


Is she correct? Convince me.

5b. Convert the fractions to decimals. Round to three decimal places where necessary.
A) $\frac{1}{9}$
B) 0.344
C) $\frac{3}{9}$
D) 0.291

Now order them from largest to smallest.

6b. Archer converts a fraction to a decimal and rounds it to three decimal places. He says,


Is he correct?
Convince me.

## Greater Depth

9a. Complete the calculation to convert the fraction below to a decimal.


10a. Match the fraction to the correct decimal. Decimals have been written to three decimal places.
A) 1.844
$1 \frac{5}{6}$
B) $\mathbf{1 . 8 3 4}$
C) 1.833

9b. Complete the calculation to convert the fraction below to a decimal.
$1 \frac{6}{8}$
$8 \longdiv { 1 } \quad { } ^ { 1 } 4 \cdot { } ^ { 6 } 0 \quad { } ^ { 4 } 0$

10b. Match the fraction to the correct decimal. Decimals have been written to three decimal places.
A) 1.444
$1 \frac{4}{9}$
B) 0.444
C) 1.433

8a. Convert the fractions to decimals. Round to three decimal places where necessary.
A) $2 \frac{3}{5}$
B) 2.69
C) $2 \frac{2}{8}$
D) 2.05

Now order them from smallest to largest.


9a. Scarlett converts a fraction to a decimal and rounds it to three decimal places. She says,


Is she correct?
Convince me.

8b. Convert the fractions to decimals. Round to three decimal places where necessary.
A) $3 \frac{2}{9}$
B) 3.133
C) $3 \frac{4}{6}$
D) 3.776

Now order them from largest to smallest.

$\qquad$
9b. Leon converts a fraction to a decimal and rounds it to three decimal places. He says,


Is he correct?
Convince me.

