Y6 Homework

Decimals as Fractions

1. Tick the statements that are correct.

A. 0.2 $=$ $\frac{2}{5}$ ☐

B. 0.3 $=$ $\frac{3}{10}$ ☐

C. 0.5 $=$ $\frac{1}{2}$ ☐

D. 0.4 $=$ $\frac{2}{5}$ ☐

2. Convert the decimals to find the fractions that, when written in their simplest form, have an even number as their numerator.

A. 0.7

B. 0.5

C. 0.4

D. 0.8

3. Haruko and Chiney are discussing converting decimals into fractions.

0.2

Haruko: 0.2 as a fraction is $\frac{1}{2}$.

Chiney: 0.2 as a fraction is $\frac{1}{5}$.

Haruko

Chiney

Who is correct? Explain your reasoning.

Developing

Decimals as Fractions

4. Tick the statements that are correct.

A. 0.28 = $\frac{7}{25}$ ☐

B. 0.06 = $\frac{6}{10}$ ☐

C. 0.45 = $\frac{9}{20}$ ☐

D. 0.37 = $\frac{37}{100}$ ☐

5. Convert the decimals to find the fractions that, when written in their simplest form, have a prime number as their numerator.

A. 0.32

B. 0.05

C. 0.75

D. 0.55

6. Devin and Rhian are discussing converting decimals into fractions.

0.15

0.15 as a fraction is $\frac{15}{100}$.

Devin

0.15 as a fraction is $\frac{3}{20}$.

Rhian

Who is correct? Explain your reasoning.

Expected

Decimals as Fractions

7. Convert the decimals below into mixed numbers in their simplest forms and complete the statement.

| 1.45 | 1.37 | 1.44 |

$$\boxed{}\frac{\boxed{}}{20} \quad > \quad \boxed{}\frac{11}{\boxed{}} \quad > \quad 1\frac{\boxed{}}{\boxed{}}$$

VF
HW/Ext

8. Complete the decimals so that, when converted to mixed numbers in their simplest forms, the numerators are prime numbers.

1.$\boxed{}$2 $\downarrow$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

2.3$\boxed{}$ $\downarrow$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

VF
HW/Ext

9. Kian and Nusra are discussing converting decimals into simplified mixed numbers.

| 2.06 | 1.15 |

Kian: These decimals could both have a denominator of 50.

Nusra: These decimals could both have a numerator of 3.

Who is correct? Explain your reasoning.

RPS
HW/Ext

GD

Challenging

Read and Write Numbers to 10,000,000

1a. In both numerals and words, write the numbers shown by the arrows.

0   10,000,000
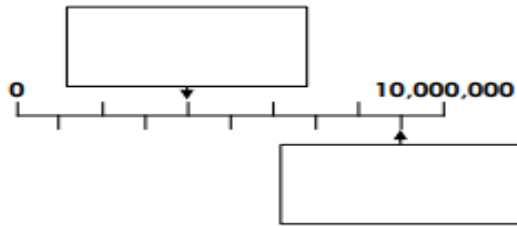
1b. In both numerals and words, write the numbers shown by the arrows.

0   10,000,000
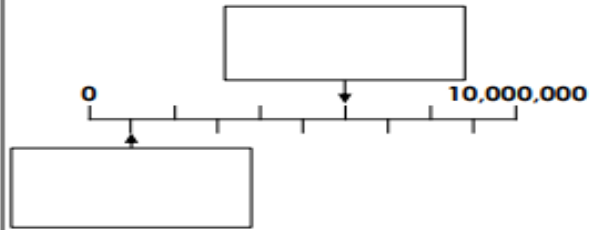
2a. Draw counters to represent the number 4,852,408 on the place value chart and write the number in words.

M	HTh	TTh	Th	H	T	O

2b. Draw counters to represent the number 1,308,275 on the place value chart and write the number in words.

M	HTh	TTh	Th	H	T	O

3a. Look at the number and answer the questions below.

6,409,328

In words, what is 2,000,000 greater?

In words, what is 4,000 less?

3b. Look at the number and answer the questions below.

7,834,054

In words, what is 300,000 less?

In words, what is 700 greater?

Place Value – Integers and Decimals

1a. Complete the statements for each place value grid.

T	O	•	t	h

O	•	t	h	th

3 _____

___ ones

___ tenths

___ hundredths

The number is _____

___ ones

4 _____

5 _____

___ thousandth

The number is _____

VF

1b. Complete the statements for each place value grid.

H	T	O	•	t

O	•	t	h	th

___ hundred

6 _____

___ ones

2 _____

The number is _____

7 _____

___ tenths

1 _____

3 _____

The number is _____

VF

2a. Write the value of each underlined digit. For example: 1.3 → 3 tenths

A. 2.64 _____

B. 18.9 _____

C. 43.06 _____

D. 50.267 _____

E. 118.42 _____

F. 239.306 _____

VF

2b. Write the value of each underlined digit. For example: 1.26 → 6 hundredths

A. 3.8 _____

B. 4.703 _____

C. 26.95 _____

D. 151.2 _____

E. 239.32 _____

F. 305.174 _____

VF

3a. Write the two missing numbers on each number line below.

2 _____ 3

4.1 _____ 4.2

VF

3b. Write the two missing numbers on each number line below.

1.5 _____ 1.6

7.23 _____ 7.24

VF