Cumulative Practice

Name: _____

Set 1: Decimal Place Value

Fill in the blanks.

1 $0.4 =$ .... $\times 10$

2 $0.06 =$ .... $\div 10$

3 10 times 0.25 is ....

4 $\frac{1}{10}$ of 0.07 is ....

5 0.9 is .... of 9.

6 10 times .... is 0.06.

7 The value of the 3 in 0.13 is .... of the value of the 3 in 0.3.

8 The value of the 4 in 4.2 is .... times the value of the 4 in 0.402.

9 The value of the 9 in 0.19 is .... times the value of the 9 in 0.449.

Set 2: Powers of 10

Complete the equations.

1 $4.3 \times 100 =$ ....

2 $0.055 \times 10^4 =$ ....

3 $0.004 \times 10^2 =$ ....

4 $66 \div 100 =$ ....

5 $0.1 \div 10^1 =$ ....

6 $45 \div 10^3 =$ ....

Complete the equations. Fill in each blank with a power of 10 in exponential form.

7 $2.2 \times$ .... $= 220$

8 $40 \div$ .... $= 0.04$

9 $0.07 \times$ .... $= 700$

10 .... $\times 0.75 = 75$

11 $24 \div$ .... $= 2.4$

12 $160 \div$ .... $= 0.016$

Set 3: Compare Decimals

Write <, >, or = in each circle to compare the numbers.

1 42.5 ◯ 42.05

2 3.6 ◯ 3.60

3 0.24 ◯ 0.244

4 0.4 ◯ 0.364

5 65 ◯ 65.3

6 1.075 ◯ 1.65

Set 4: Read and Write Decimals

Write each number in standard form in problems 1–6.

1 Thirteen and four tenths

2 Eight and twenty-two hundredths

3 Six hundred and seven thousandths

4 Seventy-five thousandths

5 $2 \times 10 + 4 \times \frac{1}{10} + 3 \times \frac{1}{1,000}$

6 $8 \times \frac{1}{100} + 9 \times \frac{1}{1,000}$

Write each number in word form in problems 7–9.

7 6.047

8 50.12

9 0.305

Set 5: Round Decimals

Round to the nearest whole number for problems 1–3.

1 26.48

2 0.533

3 5.615

Round to the nearest tenth for problems 4–6.

4 2.154

5 15.98

6 0.064

Round to the nearest hundredth for problems 7–9.

7 84.167

8 18.062

9 9.509

Set 6: Add and Subtract Decimals

Add. Show your work.

1 3.14 + 0.59

2 10.205 + 0.41

3 16 + 0.09 + 2.51

Subtract. Show your work.

4 2.15 − 1.84

5 15 − 0.67

6 4.754 − 3.62

Set 7: Add Fractions

Add. Show your work.

1 $\frac{1}{5} + \frac{3}{4}$

2 $\frac{5}{6} + \frac{1}{12}$

3 $1\frac{3}{4} + \frac{2}{3}$

4 $1\frac{4}{5} + 4\frac{3}{8}$

Set 8: Subtract Fractions

Subtract. Show your work.

1 $\frac{4}{9} - \frac{2}{5}$

2 $\frac{7}{3} - \frac{1}{2}$

3 $3\frac{1}{9} - 1\frac{5}{6}$

4 $3\frac{7}{10} - 2\frac{1}{6}$

Set 9: Multiply and Divide Multi-Digit Numbers

Multiply. Show your work.

1
$$\begin{array}{r} 1{,}516 \\ \times24 \\ \hline \end{array}$$

2
$$\begin{array}{r} 377 \\ \times15 \\ \hline \end{array}$$

3
$$\begin{array}{r} 471 \\ \times28 \\ \hline \end{array}$$

Divide. Show your work.

4 $936 \div 18$

5 $1{,}034 \div 22$

6 $19\overline{)2109}$