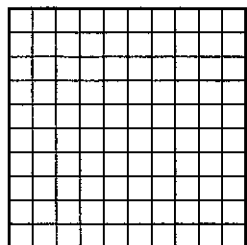


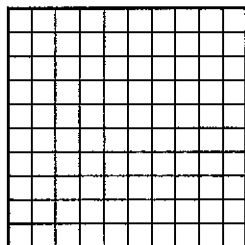
Understanding of Place Value

Name: _____

- 1 The decimal grid in each model represents 1 whole. Shade each model to show the decimal number below the model.



0.5



0.05

Complete the comparison statements.

0.05 is _____ of 0.5.

0.5 is _____ times the value of 0.05.

Complete the equations.

$0.5 \div \underline{\hspace{2cm}} = 0.05$

$0.05 \times \underline{\hspace{2cm}} = 0.5$

- 2 Draw a number line from 0 to 2. Then draw and label points at 2 and 0.2.



Use the number line to explain why 2 is 10 times the value of 0.2.

Complete the equations to show the relationship between 2 and 0.2.

$0.2 \times \underline{\hspace{2cm}} = 2$

$2 \div \underline{\hspace{2cm}} = 0.2$

- 3 Which type of model do you like best? Explain why.

Understanding Powers of 10

Name: _____

Multiply or divide.

1 $6 \div 10$

2 $0.6 \div 10$

3 $6 \div 10^2$

4 $0.6 \div 10^2$

5 $6 \div 10^3$

6 $60 \div 10^3$

7 0.3×10

8 0.3×10^2

9 0.3×10^3

10 0.03×10^2

11 0.003×10^2

12 0.03×10^3

13 $72 \div 10$

14 0.72×10^2

15 $7,200 \div 10^3$

16 $20 \div 10^2$

17 0.9×10^3

18 0.001×10^2

19 $54 \div 10$

20 $150 \div 10^3$

21 0.46×10^3

22 What strategies did you use to solve the problems? Explain.

Reading a Decimal in Word Form

Name: _____

What is the word form of each decimal?

1 0.2

3 0.002

5 0.012

7 1.002

9 90.04

11 500.2

13 700.06

15 3,000.001

2 0.02

4 0.12

6 0.102

8 9.4

10 0.94

12 8.008

14 6.335

16 What strategies did you use to help you read the decimals? Explain.

Writing a Decimal in Standard Form

Name: _____

What decimal represents each number?

1 one and six tenths

2 eight and eleven hundredths

3 $6 \times 1 + 5 \times \frac{1}{10}$

4 thirteen and thirteen thousandths

5 $2 \times 10 + 7 \times \frac{1}{10} + 3 \times \frac{1}{100}$

6 $4 \times 1 + 1 \times \frac{1}{100} + 9 \times \frac{1}{1,000}$

7 five hundred twelve thousandths

8 $8 \times 100 + 2 \times \frac{1}{10} + 8 \times \frac{1}{1,000}$

9 $2 \times 1 + 4 \times \frac{1}{100}$

10 forty-two and forty-one hundredths

11 $7 \times 100 + 2 \times 10 + 3 \times 1 + 6 \times \frac{1}{10}$

12 twelve and sixty-eight thousandths

13 $3 \times 1,000 + 6 \times 100 + 3 \times 10 + 7 \times \frac{1}{10} + 2 \times \frac{1}{100} + 8 \times \frac{1}{1,000}$

14 nine hundred fifty-six and four hundred twenty-seven thousandths

15 How was writing decimals for numbers in word form different from numbers in expanded form?

Comparing Decimals

Name: _____

Write the symbol $<$, $=$, or $>$ in each comparison statement.

1 0.02 _____ 0.002

2 0.05 _____ 0.5

3 0.74 _____ 0.84

4 0.74 _____ 0.084

5 1.2 _____ 1.25

6 5.130 _____ 5.13

7 3.201 _____ 3.099

8 0.159 _____ 1.590

9 8.269 _____ 8.268

10 4.60 _____ 4.060

11 302.026 _____ 300.226

12 0.237 _____ 0.223

13 3.033 _____ 3.303

14 9.074 _____ 9.47

15 6.129 _____ 6.19

16 567.45 _____ 564.75

17 78.967 _____ 78.957

18 5.346 _____ 5.4

19 12.112 _____ 12.121

20 26.2 _____ 26.200

21 100.32 _____ 100.232

22 What strategies did you use to solve the problems? Explain.

Rounding Decimals

Name: _____

Round each decimal to the nearest tenth.

1 0.32

2 3.87

3 0.709

4 12.75

5 12.745

6 645.059

Round each decimal to the nearest hundredth.

7 1.079

8 0.854

9 0.709

10 12.745

11 645.059

12 50.501

Round each decimal to the nearest whole number.

13 1.47

14 12.5

15 200.051

16 Write two different decimals that are the same value when rounded to the nearest tenth. Explain why the rounded values are the same.

17 Round 1.299 to the nearest tenth and to the nearest hundredth. Explain why the rounded values are equivalent.

Multiplying Multi-Digit Whole Numbers

Name: _____

Estimate. Circle all the problems with products between 3,000 and 9,000. Then find the exact products of only the problems you circled.

1
$$\begin{array}{r} 132 \\ \times 34 \\ \hline \end{array}$$

2
$$\begin{array}{r} 247 \\ \times 15 \\ \hline \end{array}$$

3
$$\begin{array}{r} 145 \\ \times 23 \\ \hline \end{array}$$

4
$$\begin{array}{r} 308 \\ \times 12 \\ \hline \end{array}$$

5
$$\begin{array}{r} 158 \\ \times 41 \\ \hline \end{array}$$

6
$$\begin{array}{r} 364 \\ \times 32 \\ \hline \end{array}$$

7
$$\begin{array}{r} 400 \\ \times 29 \\ \hline \end{array}$$

8
$$\begin{array}{r} 254 \\ \times 17 \\ \hline \end{array}$$

9
$$\begin{array}{r} 187 \\ \times 42 \\ \hline \end{array}$$

10
$$\begin{array}{r} 216 \\ \times 12 \\ \hline \end{array}$$

11
$$\begin{array}{r} 323 \\ \times 18 \\ \hline \end{array}$$

12
$$\begin{array}{r} 194 \\ \times 26 \\ \hline \end{array}$$

13
$$\begin{array}{r} 317 \\ \times 14 \\ \hline \end{array}$$

14
$$\begin{array}{r} 385 \\ \times 31 \\ \hline \end{array}$$

15
$$\begin{array}{r} 285 \\ \times 27 \\ \hline \end{array}$$

16 What strategies did you use to solve the problems? Explain.