



NTID

Mrs. Lafferty

6th Grade

Writing a Decimal in Standard Form

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

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**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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Multiplying with the Standard Algorithm

Name: _____

The answers are mixed up at the bottom of the page. Cross out the answers as you complete the problems.

$$\begin{array}{r} \mathbf{1} \quad 580 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{2} \quad 3,104 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{3} \quad 1,482 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{4} \quad 1,085 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{5} \quad 1,236 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{6} \quad 1,625 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{7} \quad 2,105 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{8} \quad 1,788 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{9} \quad 2,500 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{10} \quad 648 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{11} \quad 2,409 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{12} \quad 306 \\ \times 62 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{13} \quad 2,417 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{14} \quad 650 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{15} \quad 962 \\ \times 44 \\ \hline \end{array}$$

Answers

20,736	17,400	27,365	47,500	55,872
18,972	18,445	26,820	67,980	56,316
22,750	29,250	55,407	42,328	58,008