

Directions: Solve each problem.

Find the value of the underlined digit.

6,321.89

300

Find the value of the underlined digit.

1,284.75

0.05

Which number has a 7 with a value 10 times greater than the 7 in 274.36?

- a) 3,708.42**
- b) 197.23**

Which number has a 4 with a value $\frac{1}{10}$ of the 4 in 15.48?

- a) 324.61**
- b) 8,052.94**

Compare the value of the number 3 in the numbers below.

4,836.5

2,305.19

The value of the 3 in 4,836.5 is $\frac{1}{10}$ the value of the value of the 3 in 2,305.19.

Place Value

CCSS: 5.NBT.A.1

I can recognize that in a multi-digit number, a digit in one place represents $\frac{1}{10}$ of the place value to its left.

Find the value of the underlined digit. The first one is completed for you.

1. 2,846

40

2. 139.39

 $\frac{3}{10}$

3. 567

7

4. 2.46

 $\frac{6}{100}$

5. 4,273.1

200

6. 12,749.40

2,000

7. Compare the value of the 5 in 85,327 and 435.

The 5 in 85,327 is 1,000 times larger than the 5 in 435.

The 5 in 435 is $\frac{1}{1,000}$ of the 5 in 85,327.

8. Compare the value of the 3 in 265,413 and 4.3.

The 3 in 265,413 is 10 times larger than the 3 in 4.3.

The 3 in 4.3 is $\frac{1}{10}$ of the 3 in 265,413.

Directions: Solve each problem.

Solve each problem and explain the pattern.

$$4.9 \times 10^1 = \underline{49}$$

$$4.9 \times 10^2 = \underline{490}$$

$$4.9 \times 10^3 = \underline{4,900}$$

Answers will vary.

With each increasing exponent another zero is added to the end of the answer.

Solve each problem and explain the pattern.

$$35 \div 10^1 = \underline{3.5}$$

$$35 \div 10^2 = \underline{0.35}$$

$$35 \div 10^3 = \underline{0.035}$$

Answers will vary.

With each increasing exponent the decimal moves another place to the left.

$$0.521 \times 10^4 = \underline{5,210}$$

$$418 \times 10^2 = \underline{41,800}$$

$$7.39 \times 10^3 = \underline{7,390}$$

$$9,201 \div 10^2 = \underline{92.01}$$

$$506.7 \div 10^4 = \underline{0.05067}$$

$$82.4 \div 10^3 = \underline{0.0824}$$

$$908 \div \underline{10^2} = 9.08$$

$$5.72 \times \underline{10^3} = 5,720$$

$$27,413 \div \underline{10^3} = 27.413$$

$$13.28 \times \underline{10^2} = 1,328$$

Powers of 10

CCSS: 5.NBT.A.2

I can explain the relationship in the placement of the decimal point when a decimal is multiplied or divided by powers of 10.

Solve the following problems.

1. 6.23×10^2

623

2. $142 \div 10$

14.2

3. 586×10^3

586,000

4. $28,931 \div 10^4$

2.8931

5. 38.274×10^2

38.274

6. $493 \div 10^3$

.493

7. Explain how you found the answer to number 5.

To multiply 38.274 by 10^2 , I know that moving the decimal point one place to the right will multiply the decimal by 10, and since it is 10^2 I moved the decimal point twice, which is equivalent to multiplying 38.275 by 100.

8. Explain how you found the answer to number 6.

To divide 493 by 10^3 , I know that moving the decimal point one place to the left will divide the decimal by 10, and since it is 10^3 I moved the decimal point three times, which is equivalent to multiplying 493 by 1,000.

Directions: Solve each problem.

Write the number in expanded form and word form.

208.3

Expanded: **$2 \times 100 + 8 \times 1 + 3 \times (1/10)$**

Word: **Two hundred eight and three tenths**

Write the number in expanded form and word form.

16.794

Expanded: **$1 \times 10 + 6 \times 1 + 7 \times (1/10) + 9 \times (1/100) + 4 \times (1/1,000)$**

Word: **Sixteen and seven hundred ninety-four thousandths**

Write **>**, **<**, or **=** to compare the numbers.

19.04 **<** **19.4**

827.31 **>** **827.13**

4.59 **<** **4.6**

Write **>**, **<**, or **=** to compare the numbers.

745 **=** **745**

63.14 **<** **64.14**

98.2 **<** **98.21**

Write the number in expanded form and word form.

591.627

Expanded: **$5 \times 100 + 9 \times 10 + 1 \times 1 + 6 \times (1/10) + 2 \times (1/100) + 7 \times (1/1,000)$**

Word: **Five hundred ninety-one and six hundred twenty-seven thousandths**

Read & Write Decimals

CCSS: 5.NBT.3

I can read and write decimals to the thousandths place.

- Read the following numbers aloud to your partner.
 - Make sure you use the words tenths, hundredths, and thousandths while reading.
- Give your partner a check mark beside the number when they read the number correctly.

1) 284.3

4) 634.285

2) 34.59

5) 1,634.374

3) 938.106

6) 6,491.077

**Answers will be
shared with
partners or
parents.**

Directions: Write the following decimals in expanded form.

Example: $426.835 = 4 \times 100 + 2 \times 10 + 6 \times 1 + 8 \times (1/10) + 3 \times (1/100) + 5 \times (1/1000)$

8) $359.2 = 3 \times 100 + 5 \times 10 + 9 \times 1 + 2 \times (1/10)$

9) $54.38 = 5 \times 10 + 4 \times 1 + 3 \times (1/10) + 8 \times (1/100)$

10) $927.601 = 9 \times 100 + 2 \times 10 + 7 \times 1 + 6 \times (1/10) + 1 \times (1/1000)$

11) $302.935 = 3 \times 100 + 2 \times 1 + 9 \times (1/10) + 3 \times (1/100) + 5 \times (1/1000)$

12) $413.053 = 4 \times 100 + 1 \times 10 + 3 \times 1 + 5 \times (1/100) + 3 \times (1/1000)$

13) $7,398.436 = 7 \times 1,000 + 3 \times 100 + 9 \times 10 + 8 \times 1 + 4 \times (1/10) + 3 \times (1/100) + 6 \times (1/1000)$

Compare Decimals

CCSS: 5.NBT.3

I can compare decimals to the thousandths place.

Directions: Use $>$, $<$, and $=$ to compare the following numbers. $1.38 > 1.30$ $6.800 = 6.8$ $4.001 < 4.2$ $3.54 > 3.45$ $2.323 = 2.323$ $8.9 < 9$ $1.1 > 1.021$ $5.7 > 5.07$ $9.89 < 9.98$ $0.65 < 0.7$

Directions: Solve each problem.

Round each number to the nearest whole number.

$$84.5 \quad \underline{85}$$

$$103.48 \quad \underline{103}$$

$$6,259.73 \quad \underline{6,260}$$

Round each number to the nearest tenth.

$$425.16 \quad \underline{425.2}$$

$$92.34 \quad \underline{92.3}$$

$$863.29 \quad \underline{863.3}$$

Round each number to the nearest hundredth.

$$527.286 \quad \underline{527.29}$$

$$3.254 \quad \underline{3.25}$$

$$76.159 \quad \underline{76.16}$$

Round the number to each place.

754.867

Whole number: 755

Tenths: 754.9

Hundredths: 754.87

Round the number to each place.

2,467.359

Whole number: 2,467

Tenths: 2,467.4

Hundredths: 2,467.36

Rounding Decimals

CCSS: 5.NBT.4

I can use place value understanding to round decimals to any place.

Directions: Round to the nearest tenth, hundredth, and thousandth.

1.5246

Tenth: **1.5**Hundredth: **1.52**Thousandth: **1.525**

6.5627

Tenth: **6.6**Hundredth: **6.56**Thousandth: **6.563**

9.9564

Tenth: **10**Hundredth: **9.96**Thousandth: **9.956**

22.3581

Tenth: **22.4**Hundredth: **22.36**Thousandth: **22.358**

49.0217

Tenth: **49**Hundredth: **49.02**Thousandth: **49.022**

64.4092

Tenth: **64.4**Hundredth: **64.41**Thousandth: **64.409**

375.7296

Tenth: **375.7**Hundredth: **375.73**Thousandth: **375.730**

299.9501

Tenth: **300**Hundredth: **299.95**Thousandth: **299.950**

732.4629

Tenth: **732.5**Hundredth: **732.46**Thousandth: **732.463**

2,947.8104

Tenth: **2,947.8**Hundredth: **2,947.81**Thousandth: **2,947.810**

3,098.8723

Tenth: **3,098.9**Hundredth: **3,098.87**Thousandth: **3,098.872**

8,241.3736

Tenth: **8,241.4**Hundredth: **8,241.37**Thousandth: **8,241.374**

Directions: Solve each problem.

$$\begin{array}{r} 45 \\ \times 32 \\ \hline 1,440 \end{array}$$

$$\begin{array}{r} 247 \\ \times 36 \\ \hline 8,892 \end{array}$$

$$\begin{array}{r} 961 \\ \times 53 \\ \hline 50,933 \end{array}$$

$$\begin{array}{r} 5,904 \\ \times 82 \\ \hline 484,128 \end{array}$$

A grocery store orders 2,847 pounds of bananas each month. How many pounds of bananas do they order in 16 months?

45,552 pounds

Name: _____

Multiplication

CCSS: 5.NBT.5

I can fluently multiply multi-digit whole numbers using the standard algorithm.

$$\begin{array}{r} 1. \quad 625 \\ \quad \times 43 \\ \hline 26,875 \end{array}$$

$$\begin{array}{r} 6. \quad 403 \\ \quad \times 26 \\ \hline 10,478 \end{array}$$

$$\begin{array}{r} 2. \quad 920 \\ \quad \times 7 \\ \hline 6,440 \end{array}$$

$$\begin{array}{r} 7. \quad 2,854 \\ \quad \times 38 \\ \hline 108,452 \end{array}$$

$$\begin{array}{r} 3. \quad 6,093 \\ \quad \times 5 \\ \hline 30,465 \end{array}$$

$$\begin{array}{r} 8. \quad 46 \\ \quad \times 57 \\ \hline 2,622 \end{array}$$

$$\begin{array}{r} 4. \quad 4921 \\ \quad \times 73 \\ \hline 359,223 \end{array}$$

$$\begin{array}{r} 9. \quad 289 \\ \quad \times 76 \\ \hline 21,964 \end{array}$$

$$\begin{array}{r} 5. \quad 413 \\ \quad \times 60 \\ \hline 24,780 \end{array}$$

$$\begin{array}{r} 10. \quad 94 \\ \quad \times 48 \\ \hline 4,512 \end{array}$$

Directions: Solve each problem.

$$1,274 \div 49 = \underline{26}$$

$$442 \div 17 = \underline{26}$$

$$38 \overline{) 2,470}^{65}$$

$$43 \overline{) 688}^{16}$$

Farmer Bob harvested 6,192 bushels of wheat. If each acre produced 72 bushels, how many acres did Bob harvest?

86 acres

Name: _____

Dividing Whole Numbers

CCSS: 5.NBT.6

I can find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors.

Find each quotient.

Answer Key

1) $34 \overline{)6,290}$ **185**

2) $17 \overline{)3,536}$ **208**

3) $28 \overline{)8,708}$ **311**

4) $83 \overline{)5,146}$ **62**

5) $51 \overline{)2,142}$ **42**

6) $77 \overline{)1,848}$ **24**

Dividing Whole Numbers

CCSS: 5.NBT.6

I can find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors.

Find each quotient.

Answer Key

1) $98 \overline{) 2,093}$ **21 r 35**

2) $38 \overline{) 4,163}$ **109 r 21**

3) $27 \overline{) 1,960}$ **72 r 16**

4) $56 \overline{) 5,105}$ **91 r 9**

5) $67 \overline{) 8,325}$ **124 r 17**

6) $63 \overline{) 6,550}$ **103 r 61**

Directions: Solve each problem.

$$29.04 + 36.17 = \underline{65.21}$$

$$57.2 \times 4.6 = \underline{263.12}$$

$$95.23 - 75.84 = \underline{19.39}$$

$$35.26 \div 8.2 = \underline{4.3}$$

$$63.45 + 31.93 = \underline{95.38}$$

$$74.2 \times 50.1 = \underline{3,717.42}$$

$$148.62 - 67.85 = \underline{80.77}$$

$$827.45 \div 6.7 = \underline{123.5}$$

Elizabeth has \$70.63. She goes grocery shopping and spends \$56.79. How much money does Elizabeth have left after grocery shopping?

\$13.84

Adding Decimals

CCSS: 5.NBT.7

I can add, subtract, multiply, and divide decimals to hundredths.

Find each sum.

Answer Key

1) $46+58.68=$ **104.68**

2) $16.8+35.13=$ **51.93**

3) $7.2+18.04=$ **25.24**

4) $85.16+12.9=$ **98.06**

5) $28.46+63=$ **91.46**

6) $70.30+14.94=$ **85.24**

7) $52.87+91.45=$ **144.32**

8) $8.19+0.62=$ **8.81**

9) $44.08+26.04=$ **70.12**

10) $16+88.52=$ **104.52**

Subtracting Decimals

CCSS: 5.NBT.7

I can add, subtract, multiply, and divide decimals to hundredths.

Find each difference.

Answer Key

1) $48 - 6.28 = 41.72$

2) $70.3 - 19.27 = 51.03$

3) $24 - 9.54 = 14.46$

4) $65.18 - 6.29 = 58.89$

5) $97.21 - 38.4 = 58.81$

6) $74.06 - 19.8 = 54.26$

7) $31 - 26.83 = 4.17$

8) $11.59 - 6.86 = 4.73$

9) $63.3 - 58.64 = 4.66$

10) $81.05 - 48.96 = 32.09$

Multiplying Decimals

CCSS: 5.NBT.7

I can add, subtract, multiply, and divide decimals to hundredths.

Find each product.

Answer Key

$$\begin{array}{r} 1) \quad 37.6 \\ \times \quad 5.23 \\ \hline \mathbf{196.648} \end{array}$$

$$\begin{array}{r} 2) \quad 48.4 \\ \times \quad 36.7 \\ \hline \mathbf{1776.28} \end{array}$$

$$\begin{array}{r} 3) \quad 9.6 \\ \times \quad 3.8 \\ \hline \mathbf{36.48} \end{array}$$

$$\begin{array}{r} 4) \quad 12.4 \\ \times \quad 51.2 \\ \hline \mathbf{634.88} \end{array}$$

$$\begin{array}{r} 5) \quad 60.03 \\ \times \quad 57 \\ \hline \mathbf{3421.71} \end{array}$$

$$\begin{array}{r} 6) \quad 28.16 \\ \times \quad 4.09 \\ \hline \mathbf{115.1744} \end{array}$$

$$\begin{array}{r} 7) \quad 194 \\ \times \quad 7.6 \\ \hline \mathbf{1474.4} \end{array}$$

$$\begin{array}{r} 8) \quad 4.13 \\ \times \quad 8.6 \\ \hline \mathbf{35.518} \end{array}$$

$$\begin{array}{r} 9) \quad 33.08 \\ \times \quad 5.78 \\ \hline \mathbf{191.2024} \end{array}$$

$$\begin{array}{r} 10) \quad 59.6 \\ \times \quad 4.9 \\ \hline \mathbf{292.04} \end{array}$$

Name: _____

Dividing Decimals

CCSS: 5.NBT.7

I can add, subtract, multiply, and divide decimals to hundredths.

Find each quotient.

Answer Key

1) $0.7 \overline{)2.45}$ **3.5**

2) $1.2 \overline{)40.8}$ **34**

3) $0.24 \overline{)8.76}$ **36.5**

4) $1.6 \overline{)21.76}$ **13.6**

5) $3.2 \overline{)9.984}$ **3.12**

6) $0.53 \overline{)37.63}$ **71**