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- a. $6.671 \times 100 = \underline{667.1}$

b. $684 \div 1000 = 0.684$

Diagram illustrating the insertion of 6 into the list [6, 8, 4]. The new node 6 is being inserted at the beginning of the list, before the existing node 6.

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1. Solve.

a. $32.1 \times 10 =$ 321

b. $3632.1 \div 10 =$ 363.21

2. Solve.

a. $455 \times 1000 =$ 455,000

b. $455 \div 1000 =$ 0.455

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1. Write the following in exponential form and as a multiplication sentence using only 10 as a factor (e.g., $100 = 10^2 = 10 \times 10$).

a. 1,000 = 10^3 = $10 \times 10 \times 10$

b. 100×100 = 10^4 = $10 \times 10 \times 10 \times 10$

2. Write the following in standard form (e.g., $4 \times 10^2 = 400$).

a. $3 \times 10^2 =$ 300

c. $800 \div 10^2 =$ 8

b. $2.16 \times 10^4 =$ 21,600

d. $754.2 \div 10^3 =$ 0.7542

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1. Convert:

a. 2 meters to centimeters

$$2 \text{ m} \times \underline{100} = \underline{200} \text{ cm}$$

b. 40 milliliters to liters

$$40 \text{ ml} \div \underline{1000} = \underline{0.04} \text{ l}$$

2. Read each aloud as you write the equivalent measures.

a. $4.37 \text{ l} =$ 4 l 370 ml

b. $81.62 \text{ kg} =$ 81 kg 620 g

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1. Express nine thousandths as a decimal.

 0.009

2. Express twenty-nine thousandths as a fraction.

 $\frac{29}{1000}$

3. Express 24.357 in words.

Twenty four and three hundred fifty seven thousandths

- a. Write the expanded form using fractions or decimals.

 $2 \times 10^2 + 4 \times 1 + 3 \times \left(\frac{1}{10}\right) + 5 \times \left(\frac{1}{100}\right) + 7 \times \left(\frac{1}{1000}\right)$ (or) $2 \times 10^2 + 4 \times 1 + 3 \times 0.1 + 5 \times 0.01 + 7 \times 0.001$

- b. Express in unit form.

2 tens 4 ones 3 tenths 5 hundredths 7 thousandths

24 ones 357 thousandths

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1. Show the numbers on the place value chart using digits. Use $>$, $<$, or $=$ to compare. Explain your thinking to the right.

167.4 $<$ 167.462

1	6	7	4		
1	6	7	4	6	2

462 thousandths is larger than 4 tenths or 400 thousandths

2. Use $>$, $<$, and $=$ to compare the numbers.

32.725 $<$ 32.735

3. Arrange in descending order.

76.342 76.332 76.232 76.343

76.343, 76.342, 76.332, 76.232

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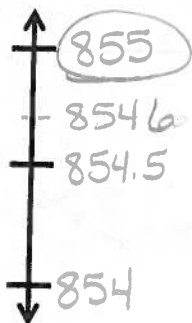
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Use the table to round the number to the given places. Label the number lines and circle the rounded value.

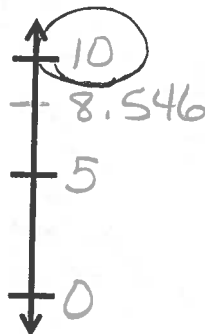
0	8 ones	5 tenths	4 hundredths	6 thousandths
		85 tenths	4 hundredths	6 thousandths
			854 hundredths	6 thousandths
				8546

8.546

a. hundredths



b. tens

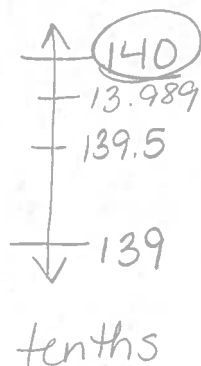


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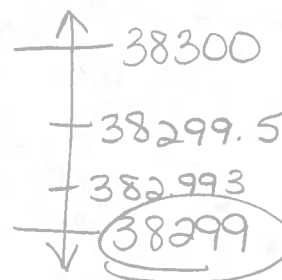
1. Round the quantity to the given place value. Draw number lines to explain your thinking. Circle the rounded value on the number line.

a. 13.989 to nearest tenth



140 tenths = 14

b. 382.993 to nearest hundredth

382.99 hundredths =
382.99

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1. Solve.

a. 4 hundredths + 8 hundredths = 12 hundredths = 1 tenths 2 hundredths

b. 64 hundredths + 8 hundredths = 72 hundredths = 7 tenths 2 hundredths

2. Solve using the standard algorithm.

<p>a. $2.40 + 1.8 = \underline{4.20}$</p> $\begin{array}{r} 2.40 \\ + 1.8 \\ \hline 4.20 \end{array}$	<p>b. $36.25 + 8.67 = \underline{44.92}$</p> $\begin{array}{r} 36.25 \\ + 8.67 \\ \hline 44.92 \end{array}$
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1. Subtract.

$$1.7 - 0.8 = \underline{17} \text{ tenths} - \underline{8} \text{ tenths} = \underline{9} \text{ tenths} = \underline{0.9}$$

2. Subtract vertically, showing all work.

a. $84.637 - 28.56 = \underline{56.077}$

$$\begin{array}{r} 7. 5 \\ 84. \cancel{6} 37 \\ - 28.560 \\ \hline 56.077 \end{array}$$

b. $7 - 0.35 = \underline{6.65}$

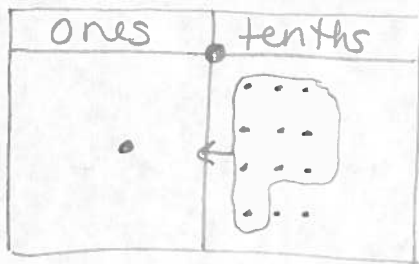
$$\begin{array}{r} 6 9 \\ 7. \cancel{0} 0 \\ - 0.35 \\ \hline 6.65 \end{array}$$

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1. Solve by drawing disks on a place value chart. Write an equation and express the product in standard form.

4 copies of 3 tenths



$$0.3 \times 4 = 1.2$$

2. Complete the area model, and then find the product.

$$3 \times 9.63$$

	<u>9</u>	<u>6</u>	<u>3</u>
<u>3</u>	3 x <u>9</u> ones	3 x <u>6</u> tenths	4 x <u>3</u> hundredths

27 ones + 18 tenths + 12 hundredths

28.92

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1. Use estimation to choose the correct value for each expression.

a. 5.1×2

0.102

1.02

10.2

102

$5 \times 2 = 10$

b. 4×8.93

3.572

35.72

357.2

3572

$4 \times 9 = 36$

2. Estimate the answer for 7.13×6 . Explain your reasoning using words, pictures or numbers.

$7 \times 6 = 42$

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1. Complete the sentences with the correct number of units and complete the equation.

a. 2 groups of 9 tenths is 1.8

$1.8 \div 2 = \underline{0.9}$

b. 4 groups of 8 hundredths is 0.32

$0.32 \div 4 = \underline{0.08}$

c. 7 groups of 3 thousandths is 0.021

$0.021 \div 7 = \underline{0.003}$

2. Complete the number sentence. Express the quotient in units and then in standard form.

a. $4.5 \div 5 = \underline{45}$ tenths $\div 5 = \underline{9}$ tenths = 0.9

b. $6.12 \div 6 = \underline{60}$ ones $\div 6 + \underline{12}$ hundredths $\div 6$
= 1 ones + 2 hundredths
= 1.2

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1. Draw number disks on the place value chart to solve. Show your steps using long division.

a. $5.372 \div 2 =$ _____

Ones	Tenths	Hundredths	Thousandths
5	3	7	2

$$\begin{array}{r}
 2 \overline{) 5.372} \\
 \underline{-4} \\
 1 3 \\
 \underline{-12} \\
 17 \\
 \underline{-16} \\
 12 \\
 \underline{-12} \\
 0
 \end{array}$$

2. Solve using the standard algorithm.

a. $0.178 \div 4 =$ 0.0445


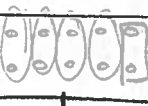
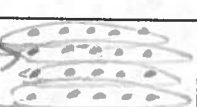
$$\begin{array}{r}
 0.0445 \\
 4 \overline{) 0.1780} \\
 \underline{-0} \\
 0 1 \\
 \underline{-0} \\
 17 \\
 \underline{-16} \\
 18 \\
 \underline{-16} \\
 20 \\
 \underline{-20} \\
 0
 \end{array}$$

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1. Draw number disks on the place value chart to solve, and show your steps using long division.

$0.9 \div 4 = 0.225$

Ones	Tenths	Hundredths	Thousandths
0	9		
			
	2	2	5
	2	2	5
	2	2	5
	2	2	5

$$\begin{array}{r}
 0.225 \\
 4 \overline{) 0.900} \\
 \underline{-8} \\
 10 \\
 \underline{-8} \\
 2
 \end{array}$$

2. Solve using the standard algorithm.

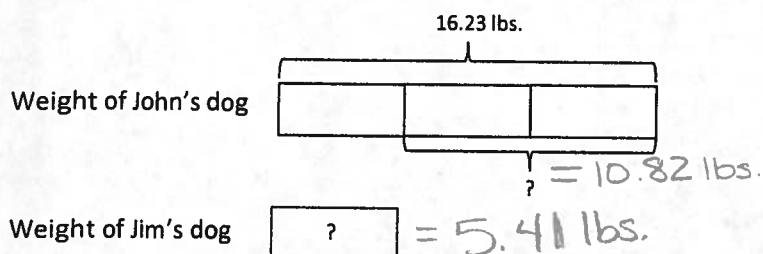
$9.8 \div 5 =$

$$\begin{array}{r}
 1.96 \\
 5 \overline{) 9.80} \\
 \underline{-5} \\
 48 \\
 \underline{-45} \\
 30 \\
 \underline{-30} \\
 0
 \end{array}$$

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Write a word problem with two questions that matches the tape diagram below, then solve.



John's dog weighs 3 times as much as Jim's dog.

John's dog weighs 16.23 lbs.

How much does Jim's dog weigh?

What is the difference in weight between Jim and John's dog?

5.41 lbs. = Jim's dog

$$\begin{array}{r} 3 \overline{) 16.23} \\ \underline{-15} \\ 12 \\ \underline{-12} \\ 03 \\ \underline{-03} \\ 0 \end{array}$$

$$\begin{array}{r} 5.41 \\ \underline{-5.41} \\ 10.82 \end{array}$$

$$\begin{array}{r} 16.23 \\ \underline{-5.41} \\ 10.82 \text{ lbs.} \end{array}$$

difference
between
Jim and John's
dogs.