DUVAL MATH

A STORY OF UNITS

FIFTH GRADE

Module 1

DUVAL COUNTY
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STUDENT WORKBOOK

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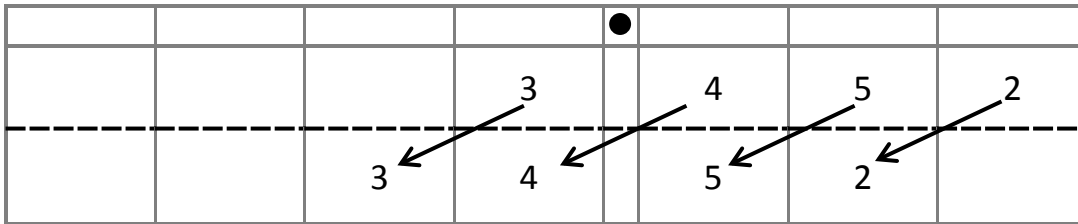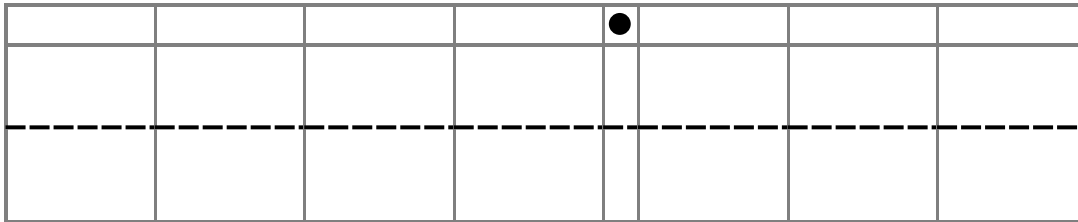
Name _____   Date _____

1. Use the place value chart and arrows to show how the value of the each digit changes. The first one has been done for you.
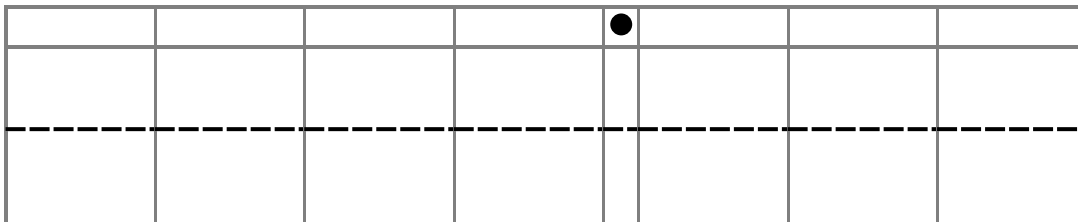
    a.   3.452 × 10 = ___34.52___

    b.   3.452 × 100 = _____

    c.   3.452 × 1,000 = _____

    d.   Explain how and why the value of the 5 changed in (a), (b), and (c).

2. Use the place value chart and arrows to show how the value of each digit changes. The first one has been done for you.

   a. 345 ÷ 10 = __34.5__

				●			
	3	4	5				
		3	4	5			

   b. 345 ÷ 100 = _____

				●			

   c. 345 ÷ 1,000 = _____

				●			
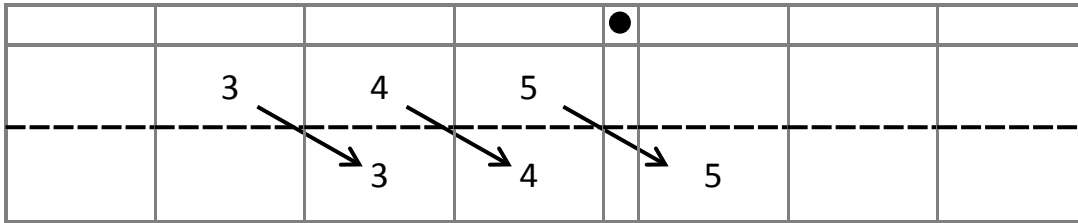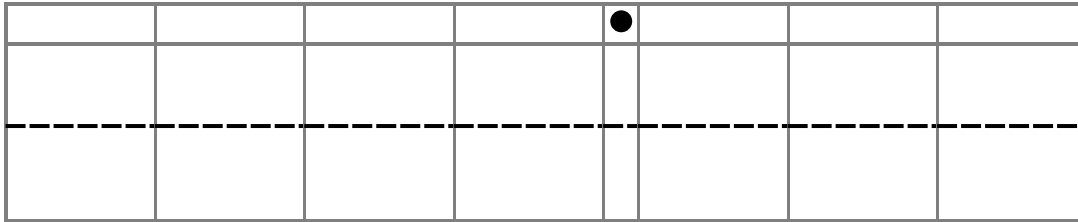
   d. Explain how and why the value of the 4 changed in the quotients in (a), (b), and (c).

3. A manufacturer made 7,234 boxes of coffee stirrers. Each box contains 1,000 stirrers. How many stirrers did they make? Explain your thinking, and include a statement of the solution.

4. A student used his place value chart to show a number. After the teacher instructed him to multiply his number by 10, the chart showed 3,200.4. Draw a picture of what the place value chart looked like at first.

				●			

   Explain how you decided what to draw on your place value chart. Be sure to include your reasoning about how the value of each digit was affected by the multiplication. Use words, pictures, or numbers.

5. A microscope has a setting that magnifies an object so that it appears 100 times as large when viewed through the eyepiece. If a tiny insect is 0.095 cm long, how long will the insect appear in centimeters through the microscope? Explain how you know.

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Name _____   Date _____

1. Use the place value chart and arrows to show how the value of each digit changes. The first one has been done for you.

    a. $4.582 \times 10 =$ ___45.82___
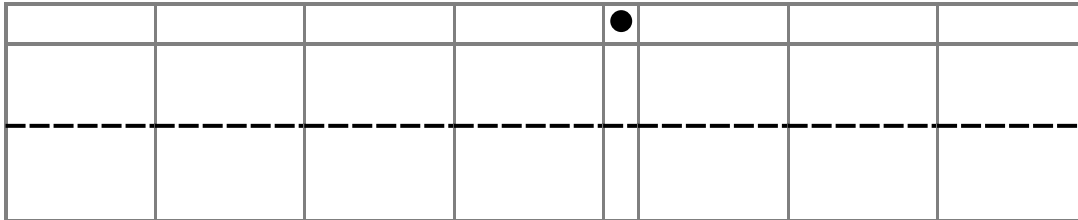
				●			
			4		5	8	2
		4	5		8	2	

    b. $7.281 \times 100 =$ _____

				●			

    c. $9.254 \times 1,000 =$ _____

			9	● 2	5	4	
9	2	5	4				
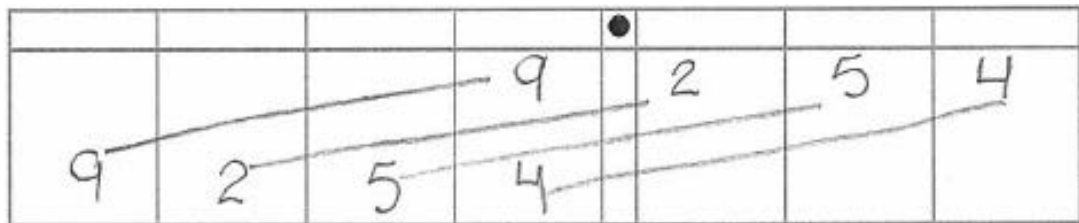
    d.   Explain how and why the value of the 2 changed in (a), (b), and (c).

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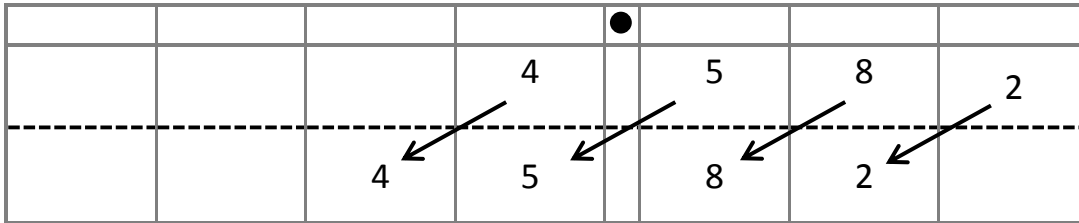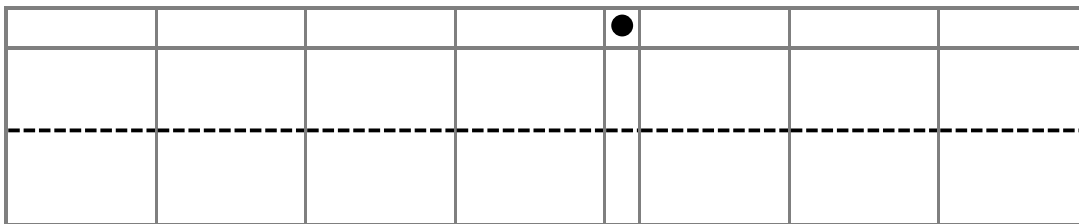2. Use the place value chart and arrows to show how the value of each digit changes. The first one has been done for you.

   a. 2.46 ÷ 10 = _____0.246_____

				●			
			2		4	6	
					2	4	6
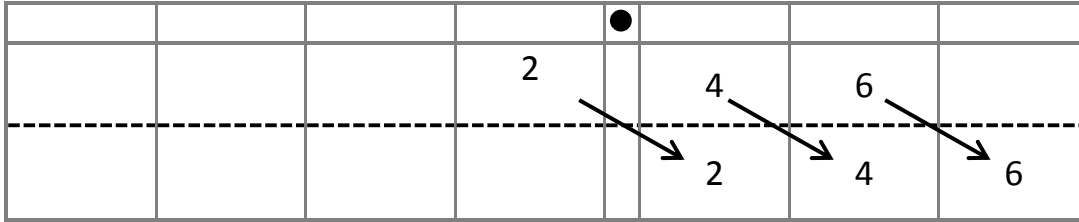
   b. 678 ÷ 100 = _____

				●			
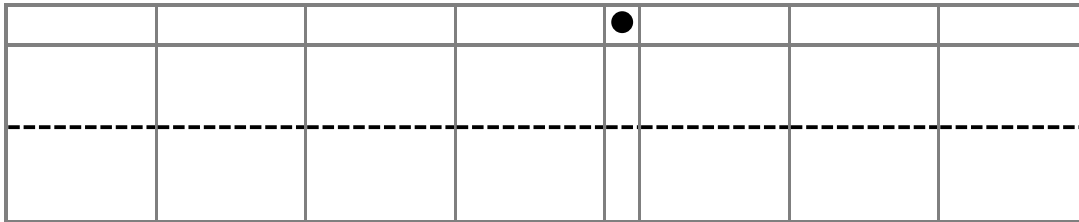
   c. 67 ÷ 1,000 = _____

				●			
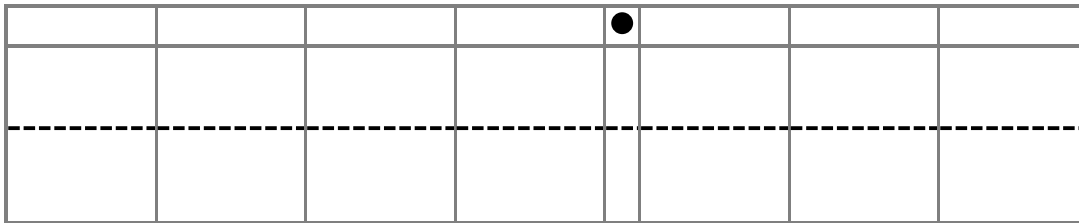
   d. Explain how and why the value of the 6 changed in the quotients in (a), (b), and (c).

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3. Researchers counted 8,912 monarch butterflies on one branch of a tree at a site in Mexico. They estimated that the total number of butterflies at the site was 1,000 times as large. About how many butterflies were at the site in all? Explain your thinking, and include a statement of the solution.

$$8,912 \times 1,000 = 8,912,000 \text{ butterflies}$$

The answer is 1,000 times greater than what was counted so the place value of each digit moved 3 places to the left.

4. A student used his place value chart to show a number. After the teacher instructed him to divide his number by 100, the chart showed 28.003. Draw a picture of what the place value chart looked like at first.

				●		

a. Explain how you decided what to draw on your place value chart. Be sure to include your reasoning about how the value of each digit was affected by the division.

5. On a map, the perimeter of a park is 0.251 meters. The actual perimeter of the park is 1,000 times as large. What is the actual perimeter of the park? Explain how you know using a place value chart.

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unlabeled hundreds through hundredths place value chart

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1,000,000	100,000	10,000	1,000	100	10	1	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
							•			
							•			
							•			

millions through thousandths place value chart

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Name _____ Date _____

1. Solve.

    a. 54,000 × 10 = _____

    b. 54,000 ÷ 10 = _____

    c. 8.7 × 10 = _____

    d. 8.7 ÷ 10 = _____

    e. 0.13 × 100 = _____

    f. 13 ÷ 1,000 = _____

    g. 3.12 × 1,000 = _____

    h. 4,031.2 ÷ 100 = _____

2. Find the products.

    a. 19,340 × 10   = _____

    b. 19,340 × 100   = _____

    c. 19,340 × 1,000 = _____

    d. Explain how you decided on the number of zeros in the products for (a), (b), and (c).

3. Find the quotients.

   a. 152 ÷ 10 = _____

   b. 152 ÷ 100 = _____

   c. 152 ÷ 1,000 = _____

   d. Explain how you decided where to place the decimal in the quotients for (a), (b), and (c).

4. Janice thinks that 20 hundredths is equivalent to 2 thousandths because 20 hundreds is equal to 2 thousands. Use words and a place value chart to correct Janice's error.

5. Canada has a population that is about $\frac{1}{10}$ as large as the United States. If Canada's population is about 32 million, about how many people live in the United States? Explain the number of zeros in your the answer.

Name _____   Date _____

1. Solve.

   a.   36,000 × 10 = _____

   b.   36,000 ÷ 10 = _____

   c.   4.3 × 10 = _____

   d.   4.3 ÷ 10 = _____

   e.   2.4 [x] 100 = _____240_____
        2.4 0   Move 2 to the right!

   f.   24 ÷ 1,000 = _____

   g.   4.54 × 1,000 = _____

   h.   3,045.4 [÷] 100 = _____30.454_____
        left   2
        Move 2 to the left!
        30.45 4
        end   start

2. Find the products.

   a.   14,560 × 10   = _____

   b.   14,560 × 100   = _____

   c.   14,560 × 1,000 = _____

Explain how you decided on the number of zeros in the products for (a), (b), and (c).

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3. Find the quotients.

a. 1.65 ÷ 10 = _0.165_ (left 1 time) ·1 left

b. 1.65 ÷ 100 = _____

c. Explain how you decided where to place the decimal in the quotients for (a) and (b).

4. Ted says that 3 tenths multiplied by 100 equals 300 thousandths. Is he correct? Use a place value chart to explain your answer.

5. Alaska has a land area of about 1,700,000 square kilometers. Florida has a land area $\frac{}{10}$ the size of Alaska. What is the land area of Florida? Explain how you found your answer.

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Name _____   Date _____

1. Write the following in exponential form (e.g., $100 = 10^2$).

   a. 10,000 = _____

   b. 1,000 = _____

   c. 10 × 10 = _____

   d. 100 × 100 = _____

   e. 1,000,000 = _____

   f. 1,000 × 1,000 = _____

2. Write the following in standard form (e.g., $5 × 10^2 = 500$).

   a. $9 × 10^3 =$ _____

   b. $39 × 10^4 =$ _____

   c. $7,200 ÷ 10^2 =$ _____

   d. $7,200,000 ÷ 10^3 =$ _____

   e. $4.025 × 10^3 =$ _____

   f. $40.25 × 10^4 =$ _____

   g. $72.5 ÷ 10^2 =$ _____

   h. $7.2 ÷ 10^2 =$ _____

3. Think about the answers to Problem 2(a–d). Explain the pattern used to find an answer when you multiply or divide a whole number by a power of 10.

4. Think about the answers to Problem 2(e–h). Explain the pattern used to place the decimal in the answer when you multiply or divide a decimal by a power of 10.

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5. Complete the patterns.

a.   0.03   0.3   _____   30   _____   _____

b.   6,500,000   65,000   _____   6.5   _____

c.   _____   9,430   _____   94.3   9.43   _____

d.   999   9990   99,900   _____   _____   _____

e.   _____   7.5   750   75,000   _____   _____

f.   Explain how you found the unknown numbers in set (b). Be sure to include your reasoning about the number of zeros in your numbers and how you placed the decimal.

g.   Explain how you found the unknown numbers in set (d). Be sure to include your reasoning about the number of zeros in your numbers and how you placed the decimal.

6. Shaunnie and Marlon missed the lesson on exponents. Shaunnie incorrectly wrote $10^5 = 50$ on her paper, and Marlon incorrectly wrote $2.5 \times 10^2 = 2.500$ on his paper.

a.   What mistake has Shaunnie made? Explain using words, numbers, or pictures why her thinking is incorrect and what she needs to do to correct her answer.

b.   What mistake has Marlon made? Explain using words, numbers, or pictures why his thinking is incorrect and what he needs to do to correct his answer.

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Name _____   Date _____

1. Write the following in exponential form (e.g., $100 = 10^2$).

3 zeros!
⇩   ③
a. 1000 = __10__

b. 10 × 10 = _____

c. 100,000 = __10^5__

d. 100 × 10 = _____

e. 1,000,000 = _____

f. 10,000 × 10 = __10^5__

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

a. $4 × 10^3$ = _____

b. $64 × 10^4$ = _____

c. $5,300 ÷ 10^2$ = _____

d. $5,300,000 ÷ 10^3$ = _____

e. $6.072 × 10^3$ = _____

f. $60.72 × 10^4$ = _____

g. $948 ÷ 10^3$ = _____

h. $9.4 ÷ 10^2$ = _____

3. Complete the patterns.

a. 0.02   0.2   __2__   20   __200__   __$2,000$__

b. 3,400,000   34,000   _____   3.4   _____

c. _____   8,570   _____   85.7   8.57   _____

d. 444   4440   44,400   _____   _____   _____

e. __0.095__   9.5   950   95,000 $9,500,000$ __$950,000,000$__

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4. After a lesson on exponents, Tia went home and said to her mom, "I learned that 10^4 is the same as 40,000." She has made a mistake in her thinking. Use words, numbers, or a place value chart to help Tia correct her mistake.

5. Solve $247 \div 10^2$ and 247×10^2.

   a. What is different about the two answers? Use words, numbers, or pictures to explain how the digits shift.

$$247 \div 100 = 2.47 \qquad 247 \times 100 = 24,700$$

2.47 **is** 100 **times smaller than** 247.

24,700 **is** 100 **times larger than** 247

   b. Based on the answers from the pair of expressions above, solve $247 \div 10^3$ and 247×10^3.

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10	$10 \times$ _____	

powers of 10 chart

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Name _____   Date _____

1. Convert and write an equation with an exponent. Use your meter strip when it helps you.

    a. 3 meters to centimeters   3 m = 300 cm   _____ $3 \times 10^2 = 300$ _____

    b. 105 centimeters to meters   105 cm = _____ m   _____

    c. 1.68 meters to centimeters   _____ m = _____ cm   _____

    d. 80 centimeters to meters   _____ cm = _____ m   _____

    e. 9.2 meters to centimeters   _____ m = _____ cm   _____

    f. 4 centimeters to meters   _____ cm = _____ m   _____

    g. In the space below, list the letters of the problems where larger units are converted to smaller units.

2. Convert using an equation with an exponent. Use your meter strip when it helps you.

    a. 3 meters to millimeters   _____ m = _____ mm   _____

    b. 1.2 meters to millimeters   _____ m = _____ mm   _____

    c. 1,020 millimeters to meters   _____ mm = _____ m   _____

    d. 97 millimeters to meters   _____ mm = _____ m   _____

    e. 7.28 meters to millimeters   _____ m = _____ mm   _____

    f. 4 millimeters to meters   _____ mm = _____ m   _____

    g. In the space below, list the letters of the problems where smaller units are converted to larger units.

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3. Read each aloud as you write the equivalent measures. Write an equation with an exponent you might use to convert.

a. 3.512 m = _____ mm $3.512 \times 10^3 = 3,512$

b. 8 cm = _____ m   _____

c. 42 mm = _____ m   _____

d. 0.05 m = _____ mm   _____

e. 0.002 m = _____ cm   _____

4. The length of the bar for a high jump competition must always be 4.75 m. Express this measurement in millimeters. Explain your thinking. Include an equation with an exponent in your explanation.

5. A honey bee's length measures 1 cm. Express this measurement in meters. Explain your thinking. Include an equation with an exponent in your explanation.

6. Explain why converting from meters to centimeters uses a different exponent than converting from meters to millimeters.

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Name _____   Date _____

1. Convert and write an equation with an exponent. Use your meter strip when it helps you.

   a.   2 meters to centimeters   2m = 200 cm $2 \times 10^2 = 200$

   b.   108 centimeters to meters   108 cm = __1.08__ m $108 \div 10^2$

   c.   2.49 meters to centimeters   _____ m = _____ cm   _____

   d.   50 centimeters to meters   _____ cm = _____ m   _____

   e.   6.3 meters to centimeters   __6.3__ m = __630__ cm 6.3×10^2

   f.   7 centimeters to meters   _____ cm = _____ m   _____

   g.   In the space below, list the letters of the problems where smaller units are converted to larger units.

2. Convert using an equation with an exponent. Use your meter strip when it helps you.

   a.   4 meters to millimeters   _____ m = _____ mm   _____

   b.   1.7 meters to millimeters   _____ m = _____ mm   _____

   c.   1,050 millimeters to meters   _____ mm = _____ m   _____

   d.   65 millimeters to meters   _____ mm = _____ m   _____

   e.   4.92 meters to millimeters   _____ m = _____ mm   _____

   f.   3 millimeters to meters   _____ mm = _____ m   _____

   g.   In the space below, list the letters of the problems where larger units are converted to smaller units.

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3. Read each aloud as you write the equivalent measures. Write an equation with an exponent you might use to convert.

a. 2.638 m   = _____ mm $2.638 \times 10^3 = 2{,}638$

b. 7 cm   = _____ m   _____

c. 39 mm   = _____ m   _____

d. 0.08 m   = _____ mm   _____

e. 0.005 m   = _____ cm   _____

4. Yi Ting's height is 1.49 m. Express this measurement in millimeters. Explain your thinking. Include an equation with an exponent in your explanation.

5. A ladybug's length measures 2 cm. Express this measurement in meters. Explain your thinking. Include an equation with an exponent in your explanation.

6. The length of a sticky note measures 77 millimeters. Express this length in meters. Explain your thinking. Include an equation with an exponent in your explanation.

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0 cm   10 cm   20 cm

1 2 3 4 5 6 7 8 9   11 12 13 14 15 16 17 18 19   21 22 23 24 25 26

26 27 28 29   31 32 33 34 35 36 37 38 39   41 42 43 44 45 46 47 48 49   51 52

30 cm   40 cm   50 cm

52 53 54 55 56 57 58 59   61 62 63 64 65 66 67 68 69   71 72 73 74 75 76 77 78

60 cm   70 cm

78 79   81 82 83 84 85 86 87 88 89   91 92 93 94 95 96 97 98 99

80 cm   90 cm   100 cm

meter strip

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Name _____   Date _____

1. Express as decimal numerals. The first one is done for you.

a.	Four thousandths	0.004
b.	Twenty-four thousandths	
c.	One and three hundred twenty-four thousandths	
d.	Six hundred eight thousandths	
e.	Six hundred and eight thousandths	
f.	$\frac{46}{1000}$	
g.	$3\frac{946}{1000}$	
h.	$200\frac{904}{1000}$	

2. Express each of the following values in words.

   a. 0.005   _____

   b. 11.037   _____

   c. 403.608 _____

3. Write the number on a place value chart. Then, write it in expanded form using fractions or decimals to express the decimal place value units. The first one is done for you.

   a. 35.827

Tens	Ones		Tenths	Hundredths	Thousandths
3	5	●	8	2	7

$$35.827 = 3 \times 10 + 5 \times 1 + 8 \times \left(\frac{1}{10}\right) + 2 \times \left(\frac{1}{100}\right) + 7 \times \left(\frac{1}{1000}\right) \ \ or$$
$$= 3 \times 10 + 5 \times 1 + 8 \times 0.1 + 2 \times 0.01 + 7 \times 0.001$$

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b. 0.249

c. 57.281

4. Write a decimal for each of the following. Use a place value chart to help, if necessary.

a. $7 \times 10 + 4 \times 1 + 6 \times \left(\frac{1}{10}\right) + 9 \times \left(\frac{1}{100}\right) + 2 \times \left(\frac{1}{1000}\right)$

b. $5 \times 100 + 3 \times 10 + 8 \times 0.1 + 9 \times 0.001$

c. $4 \times 1,000 + 2 \times 100 + 7 \times 1 + 3 \times \left(\frac{1}{100}\right) + 4 \times \left(\frac{1}{1000}\right)$

5. Mr. Pham wrote 2.619 on the board. Christy says it is two and six hundred nineteen thousandths. Amy says it is 2 ones 6 tenths 1 hundredth 9 thousandths. Who is right? Use words and numbers to explain your answer.

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Name _____   Date _____

1. Express as decimal numerals. The first one is done for you.

a. Five thousandths	0.005
b. Thirty-five thousandths	0.035
c. Nine and two hundred thirty-five thousandths	
d. Eight hundred and five thousandths	
e. $\frac{8}{1000}$	0.008
f. $\frac{28}{1000}$	
g. $7\frac{528}{1000}$	
h. $300\frac{502}{1000}$	300.502

2. Express each of the following values in words.

a. 0.008 ___**eight thousandths**_____

b. 15.062 _____

c. 607.409 _____

3. Write the number on a place value chart. Then, write it in expanded form using fractions or decimals to express the decimal place value units. The first one is done for you.

a. 27.346

Tens	Ones	•	Tenths	Hundredths	Thousandths
2	7		3	4	6

$27.346 = 2 \times 10 + 7 \times 1 + 3 \times \left(\frac{1}{10}\right) + 4 \times \left(\frac{1}{100}\right) + 6 \times \left(\frac{1}{1000}\right)$ *or*

$27.346 = 2 \times 10 + 7 \times 1 + 3 \times 0.1 + 4 \times 0.01 + 6 \times 0.001$

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b. 0.362

c. 49.564

4. Write a decimal for each of the following. Use a place value chart to help, if necessary.

a. $3 \times 10 + 5 \times 1 + 2 \times \left(\frac{1}{10}\right) + 7 \times \left(\frac{1}{100}\right) + 6 \times \left(\frac{1}{1000}\right)$

b. $9 \times 100 + 2 \times 10 + 3 \times 0.1 + 7 \times 0.001$

c. $5 \times 1000 + 4 \times 100 + 8 \times 1 + 6 \times \left(\frac{1}{100}\right) + 5 \times \left(\frac{1}{1000}\right)$

5. At the beginning of a lesson, a piece of chalk is 4.875 inches long. At the end of the lesson, it is 3.125 inches long. Write the two amounts in expanded form using fractions.

a. At the beginning of the lesson:

b. At the end of the lesson:

6. Mrs. Herman asked the class to write an expanded form for 412.638. Nancy wrote the expanded form using fractions, and Charles wrote the expanded form using decimals. Write their responses.

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Thousandths	
Hundredths	
Tenths	
● Ones	
Tens	
Hundreds	
Thousands	

thousands through thousandths place value chart

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Name _____   Date _____

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

34.223 ◯ 34.232
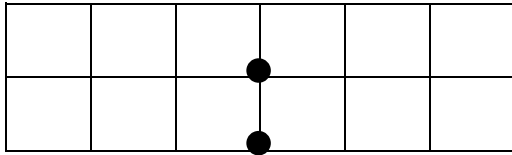
0.8 ◯ 0.706
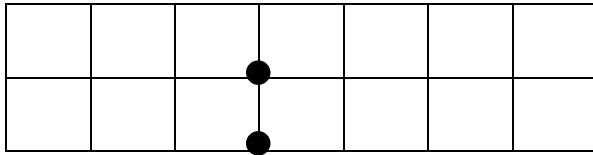
2. Use >, <, or = to compare the following. Use a place value chart to help, if necessary.

a. 16.3	◯	16.4
b. 0.83	◯	$\frac{83}{100}$
c. $\frac{205}{1000}$	◯	0.205
d. 95.580	◯	95.58
e. 9.1	◯	9.099
f. 8.3	◯	83 tenths
g. 5.8	◯	Fifty-eight hundredths

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h. Thirty-six and nine thousandths	( )	4 tens
i. 202 hundredths	( )	2 hundreds and 2 thousandths
j. One hundred fifty-eight thousandths	( )	158,000
k. 4.15	( )	415 tenths

3. Arrange the numbers in increasing order.

   a. 3.049   3.059   3.05   3.04

   _____

   b. 182.205   182.05   182.105   182.025

   _____

4. Arrange the numbers in decreasing order.

   a. 7.608   7.68   7.6   7.068

   _____

   b. 439.216   439.126   439.612   439.261

   _____

5. Lance measured 0.485 liter of water. Angel measured 0.5 liter of water. Lance said, "My beaker has more water than yours because my number has three decimal places and yours only has one." Is Lance correct? Use words and numbers to explain your answer.

6. Dr. Hong prescribed 0.019 liter more medicine than Dr. Tannenbaum. Dr. Evans prescribed 0.02 less than Dr. Hong. Who prescribed the most medicine? Who prescribed the least?

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Name _____   Date _____

1. Use >, <, or = to compare the following.

a. 16.45	◯	16.454
b. 0.83	◯	$\frac{83}{100}$
c. $\frac{205}{1000}$ **0.205**	=	0.205
d. 95.045	◯	95.545
e. 419.10	◯	419.099
f. Five ones and eight tenths	◯	Fifty-eight tenths
g. Thirty-six and nine thousandths	◯	Four tens
h. One hundred four and twelve hundredths	◯	One hundred four and two thousandths
i. One hundred fifty-eight thousandths	◯	0.58
j. 703.005	<	Seven hundred three and five hundredths

2. Arrange the numbers in increasing order.

a. 8.08   8.081   8.09   8.008

_____

b. 14.204   14.200   14.240   14.210

_____

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3. Arrange the numbers in decreasing order.

a. 8.508   8.58   7.5   7.058

___8.58 , 8.508 , 7.5 , 7.058___

b. 439.216   439.126   439.612   439.261

_____

4. James measured his hand. It was 0.17 meter. Jennifer measured her hand. It was 0.165 meter. Whose hand is bigger? How do you know?

5. In a paper airplane contest, Marcel's plane travels 3.345 meters. Salvador's plane travels 3.35 meters. Jennifer's plane travels 3.3 meters. Based on the measurements, whose plane traveled the farthest distance? Whose plane traveled the shortest distance? Explain your reasoning using a place value chart.

	ones		Tenths	Hundredths	Thousandths
Marcel		.			
Salvador		.			
Jennifer		.			

DUVAL MATH

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Name _____   Date _____

Fill in the table, and then round to the given place. Label the number lines to show your work. Circle the rounded number.

1. 3.1

    a. Hundredths   b. Tenths   c. Tens

Tens	Ones	Tenths	Hundredths	Thousandths

2. 115.376

    a. Hundredths   b. Ones   c. Tens

Tens	Ones	Tenths	Hundredths	Thousandths

DUVAL MATH
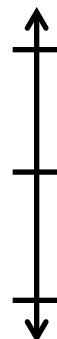
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3. 0.994

Tens	Ones	Tenths	Hundredths	Thousandths

a. Hundredths   b. Tenths   c. Ones   d. Tens

4. For open international competition, the throwing circle in the men's shot put must have a diameter of 2.135 meters. Round this number to the nearest hundredth. Use a number line to show your work.

5. Jen's pedometer said she walked 2.549 miles. She rounded her distance to 3 miles. Her brother rounded her distance to 2.5 miles. When they argued about it, their mom said they were both right. Explain how that could be true. Use number lines and words to explain your reasoning.

DUVAL MATH

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Name _____ Date _____

Fill in the table, and then round to the given place. Label the number lines to show your work. Circle the rounded number.

1. 4.3

   a. Hundredths   b. Tenths   c. Ones

Tens	Ones	Tenths	Hundredths	Thousandths

Number line annotations:
- 431 hundredths 4.31
- 44 tenths = 4.4
- 5 ones = 5
- 430 hundredths 5 thousandths
- 43 tenths
- 5 hundredths = 4.5
- 4 ones 5 tenths
- 4 ones 3 tenths
- (430 hundredths 4.30) circled
- (43 tenths 4.3) circled
- (4 ones = 4) circled
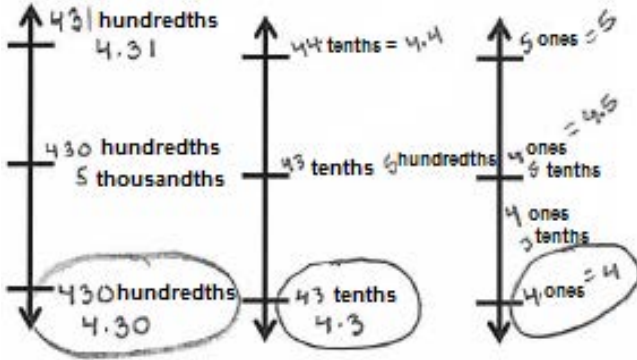
2. 225.286

   a. Hundredths   b. Ones   c. Tens

Tens	Ones	Tenths	Hundredths	Thousandths

DUVAL MATH
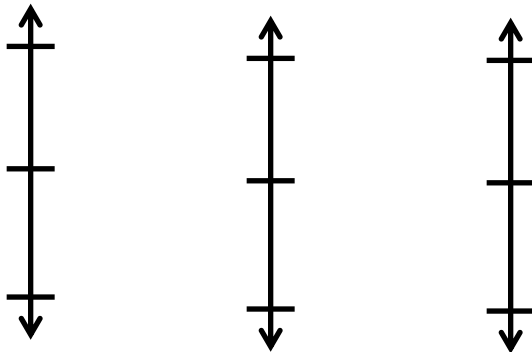
3. 8.984

Tens	Ones	Tenths	Hundredths	Thousandths

    a. Hundredths   b. Tenths   c. Ones   d. Tens

4. On a Major League Baseball diamond, the distance from the pitcher's mound to home plate is 18.386 meters.

    a. Round this number to the nearest hundredth of a meter. Use a number line to show your work.

    b. How many centimeters is it from the pitcher's mound to home plate?

5. Jules reads that 1 pint is equivalent to 0.473 liters. He asks his teacher how many liters there are in a pint. His teacher responds that there are about 0.47 liters in a pint. He asks his parents, and they say there are about 0.5 liters in a pint. Jules says they are both correct. How can that be true? Explain your answer.

Thousandths	Hundredths	Tenths	•	Ones	Tens	Hundreds

hundreds to thousandths place value chart

Name _____   Date _____

1. Write the decomposition that helps you, and then round to the given place value. Draw number lines to explain your thinking. Circle the rounded value on each number line.

   a. Round 32.697 to the nearest tenth, hundredth, and one.

   b. Round 141.999 to the nearest tenth, hundredth, ten, and hundred.

2. A root beer factory produces 132,554 cases in 100 days. About how many cases does the factory produce in 1 day? Round your answer to the nearest tenth of a case. Show your thinking on the number line.

3. A decimal number has two digits to the right of its decimal point. If we round it to the nearest tenth, the result is 13.7.

a. What is the maximum possible value of this number? Use words and the number line to explain your reasoning. Include the midpoint on your number line.
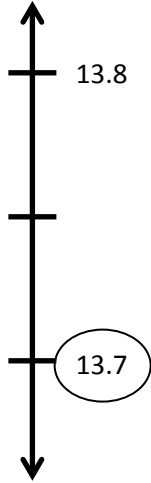
b. What is the minimum possible value of this decimal? Use words and the number line to explain your reasoning. Include the midpoint on your number line.
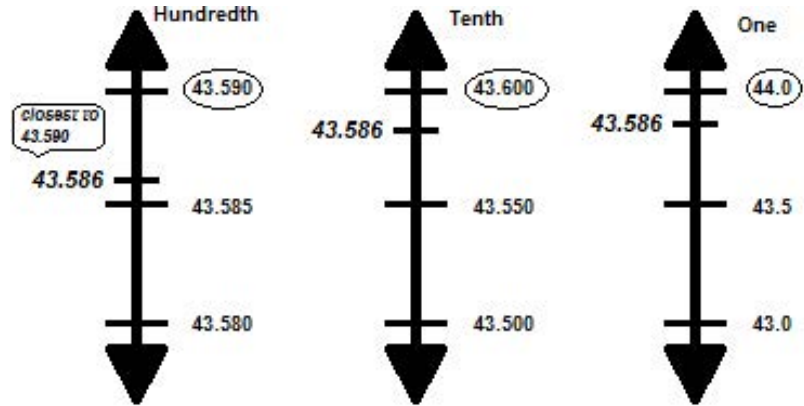
DUVAL COUNTY
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Name _____   Date _____

1. Write the decomposition that helps you, and then round to the given place value. Draw number lines to explain your thinking. Circle the rounded value on each number line.

   a. 43.586 to the nearest tenth, hundredth, and one.

   Hundredth | Tenth | One
   43.590 (circled), closest to 43.590, 43.586, 43.585, 43.580
   43.600 (circled), 43.586, 43.550, 43.500
   44.0 (circled), 43.586, 43.5, 43.0

   b. 243.875 to nearest tenth, hundredth, ten, and hundred.

2. A trip from New York City to Seattle is 2,852.1 miles. A family wants to make the drive in 10 days, driving the same number of miles each day. About how many miles will they drive each day? Round your answer to the nearest tenth of a mile.

3. A decimal number has two digits to the right of its decimal point. If we round it to the nearest tenth, the result is 18.6.

   a. What is the maximum possible value of this number? Use words and the number line to explain your reasoning. Include the midpoint on your number line.

18.7 (1870 hundredths)

18.6
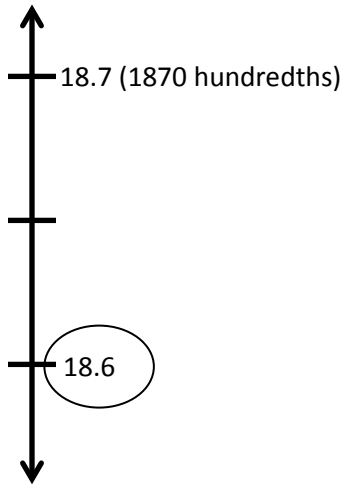
   b. What is the minimum possible value of this decimal? Use words, pictures, or numbers to explain your reasoning.

18.6

18.5
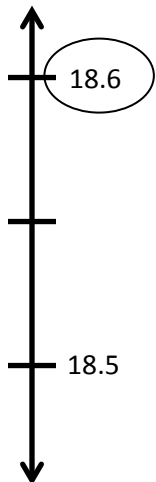
Name _____   Date _____

1. Solve, and then write the sum in standard form. Use a place value chart if necessary.

    a.   1 tenth + 2 tenths = _____ tenths = _____

    b.   14 tenths + 9 tenths = _____ tenths = _____ one(s) _____ tenth(s) = _____

    c.   1 hundredth + 2 hundredths = _____ hundredths = _____

    d.   27 hundredths + 5 hundredths = _____ hundredths = _____ tenths _____ hundredths = _____

    e.   1 thousandth + 2 thousandths = _____ thousandths = _____

    f.   35 thousandths + 8 thousandths = _____ thousandths = _____ hundredths _____ thousandths = _____

    g.   6 tenths + 3 thousandths = _____ thousandths = _____

    h.   7 ones 2 tenths + 4 tenths = _____ tenths = _____

    i.   2 thousandths + 9 ones 5 thousandths = _____ thousandths = _____

2.   Solve using the standard algorithm.

a. 0.3 + 0.82 = _____	b. 1.03 + 0.08 = _____
c. 7.3 + 2.8 = _____	d. 57.03 + 2.08 = _____

e. 62.573 + 4.328 = _____	f. 85.703 + 12.197 = _____

3. Van Cortlandt Park's walking trail is 1.02 km longer than Marine Park's. Central Park's walking trail is 0.242 km longer than Van Cortlandt's.

   a. Fill in the missing information in the chart below.

New York City Walking Trails	
Central Park	_____ km
Marine Park	1.28 km
Van Cortlandt Park	_____ km

   b. If a tourist walked all 3 trails in a day, how many kilometers would he or she have walked?

4. Meyer has 0.64 GB of space remaining on his iPod. He wants to download a pedometer app (0.24 GB), a photo app (0.403 GB), and a math app (0.3 GB). Which combinations of apps can he download? Explain your thinking.

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Name _____   Date _____

1. Solve.

   a. 3 tenths + 4 tenths = _____ tenths

   b. 12 tenths + 9 tenths = _____**21**_____ tenths = _____**2**_____ one(s) _____**1**_____ tenth(s)

   c. 3 hundredths + 4 hundredths = _____ hundredths

   d. 27 hundredths + 7 hundredths = ___**34**___ hundredths = ___**3**___ tenths ___**4**___ hundredths

   e. 4 ones 4 tenths + 4 tenths = _____ tenths

2. Solve using the standard algorithm.

a. 0.4 + 0.7 = _____	b. 2.04 + 0.07 = _____
c. 6.4 + 3.7 = _____	d. 56.04 + 3.07 = _____

DUVAL MATH

e. 72.564 + 5.137 = _____	f. 75.604 + 22.296 = _____

3. Walkway Over the Hudson, a bridge that crosses the Hudson River in Poughkeepsie, is 2.063 kilometers long. Anping Bridge, which was built in China 850 years ago, is 2.07 kilometers long.

   a. What is the total span of both bridges? Show your thinking.

	ones	tenths	hundredths	thousandths
Hudson	2	0	6	3
Anping	2	0	7	

   b. Leah likes to walk her dog on the Walkway Over the Hudson. If she walks across and back, how far will she and her dog walk?

   Leah walked 4.126 km.

$$\begin{array}{r} 2.063 \\ +2.063 \\ \hline 4.126 \end{array}$$

4. For his parents' anniversary, Danny spends $5.87 on a photo. He also buys a balloon for $2.49 and a box of strawberries for $4.50. How much money does he spend all together?

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Name _____   Date _____

1. Subtract, writing the difference in standard form. You may use a place value chart to solve.

    a. 5 tenths – 2 tenths = _____ tenths = _____

    b. 5 ones 9 thousandths – 2 ones = _____ ones _____ thousandths = _____

    c. 7 hundreds 8 hundredths – 4 hundredths = _____ hundreds _____ hundredths = _____

    d. 37 thousandths – 16 thousandths = _____ thousandths = _____

2. Solve using the standard algorithm.

a. 1.4 – 0.7 = _____	b. 91.49 – 0.7 = _____	c. 191.49 – 10.72 = _____
d. 7.148 – 0.07 = _____	e. 60.91 – 2.856 = _____	f. 361.31 – 2.841 = _____

DUVAL MATH

3. Solve.

a. 10 tens – 1 ten 1 tenth	b. 3 – 22 tenths	c. 37 tenths – 1 one 2 tenths
d. 8 ones 9 hundredths – 3.4	e. 5.622 – 3 hundredths	f. 2 ones 4 tenths – 0.59

4. Mrs. Fan wrote *5 tenths minus 3 hundredths* on the board. Michael said the answer is 2 tenths because 5 minus 3 is 2. Is he correct? Explain.

5. A pen costs $2.09. It costs $0.45 less than a marker. Ken paid for one pen and one marker with a five-dollar bill. Use a tape diagram with calculations to determine his change.

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Name _____   Date _____

1. Subtract. You may use a place value chart.

    a. 9 tenths – 3 tenths = ____**6**____ tenths

    b. 9 ones 2 thousandths – 3 ones = _____ ones _____ thousandths

    c. 4 hundreds 6 hundredths – 3 hundredths = _____ hundreds _____ hundredths

    d. 56 thousandths – 23 thousandths = _____ thousandths = _____ hundredths _____ thousandths

2. Solve using the standard algorithm.

a. 1.8 – 0.9 = _____	b. 41.84 – 0.9 = _____	c. 341.84 – 21.92 = _____
d. 5.182 – 0.09 = _____	e. 50.416 – 4.25 = _____	f. 741 – 3.91 = _____

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PUBLIC SCHOOLS

3. Solve.

a. 30 tens – 3 tens 3 tenths	b. 5 – 16 tenths	c. 24 tenths – 1 one 3 tenths
$300 - 30.3$ 269.7		
d. 6 ones 7 hundredths – 2.3	e. 8.246 – 5 hundredths	f. 5 ones 3 tenths – 0.53
		$5.3 - .53$ $\overset{4}{5}.\overset{12}{3}\overset{10}{0}$ -0.53 4.77

4. Mr. House wrote *8 tenths minus 5 hundredths* on the board. Maggie said the answer is 3 hundredths because 8 minus 5 is 3. Is she correct? Explain.

5. A clipboard costs $2.23. It costs $0.58 more than a notebook. Lisa bought two clipboards and one notebook. She paid with a ten dollar bill. How much change does Lisa get? Use a tape diagram to show your thinking.
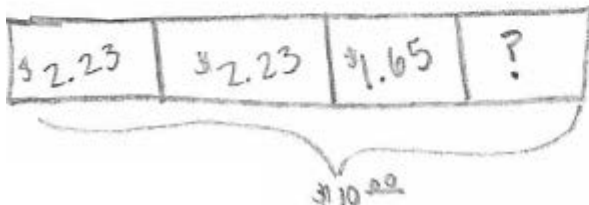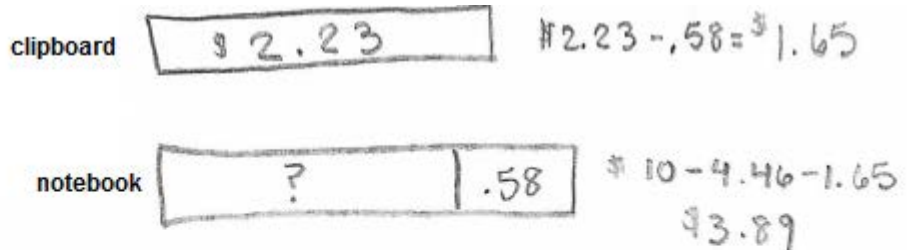
clipboard $\boxed{\$ 2.23}$ $\$2.23 - .58 = \$1.65$

notebook $\boxed{? \quad | \quad .58}$ $\$10 - 4.46 - 1.65$
   $\$3.89$

$\boxed{\$2.23 \; | \; \$2.23 \; | \; \$1.65 \; | \; ?}$

$\$10.00$

Name _____   Date _____

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

    a. 3 copies of 2 tenths

    b. 5 groups of 2 hundredths

    c. 3 times 6 tenths

    d. 6 times 4 hundredths

    e. 5 times as much as 7 tenths

    f. 4 thousandths times 3

2. Draw a model similar to the one pictured below for Parts (b), (c), and (d). Find the sum of the partial products to evaluate each expression.

    a. 7×3.12

	3 ones	+	1 tenth	+	2 hundredths
7	7 × 3 ones		7 × 1 tenth		7 × 2 hundredths

    _____ + _____ + 0.14 = _____

    b. 6×4.25

c. 3 copies of 4.65

d. 4 times as much as 20.075

3. Miles incorrectly gave the product of 7 × 2.6 as 14.42. Use a place value chart or an area model to help Miles understand his mistake.

4. Mrs. Zamir wants to buy 8 protractors and some erasers for her classroom. She has $30. If protractors cost $2.65 each, how much will Mrs. Zamir have left to buy erasers?

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Name _____   Date _____

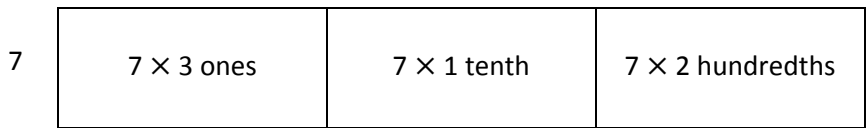1. Solve by drawing disks on a place value chart. Write an equation, and express the product in standard form.

a. 2 copies of 4 tenths

$4 \times .05 = 2$ tenths

b. 4 groups of 5 hundredths = 2 tenths (0.2)
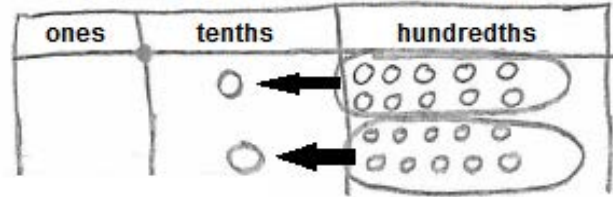
c. 4 times 7 tenths

d. 3 times 5 hundredths

e. 9 times as much as 7 tenths

f. 6 thousandths times 8

2. Draw a model similar to the one pictured below. Find the sum of the partial products to evaluate each expression.

a. 4×6.79

	6 ones	+	7 tenths	+	9 hundredths

4	4×6 ones	4×7 tenths	4×9 hundredths

_____ + _____ + _____ = _____

DUVAL MATH

b. 6×7.49

c.   9 copies of 3.65

d.   3 times 20.175

3.   Leanne multiplied 8×4.3 and got 32.24. Is Leanne correct? Use an area model to explain your answer.

Leanne is not correct. The correct answer is 34.4

4 ones   3 tenths

8 | 32 ones | 24 tenths

32   +   2.4
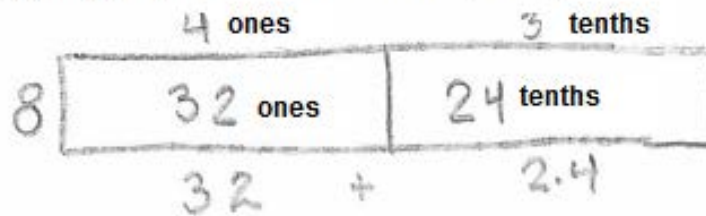
4.   Anna buys groceries for her family. Hamburger meat is $3.38 per pound, sweet potatoes are $0.79 each, and hamburger rolls are $2.30 a bag. If Anna buys 3 pounds of meat, 5 sweet potatoes, and 1 bag of hamburger rolls, what will she pay in all for the groceries?

Name _____   Date _____

1. Choose the reasonable product for each expression. Explain your reasoning in the spaces below using words, pictures, or numbers.

   a. 2.5×4 0.1   1   10   100

   b. 3.14×7 2198   219.8   21.98   2.198

   c. 8×6.022 4.8176   48.176   481.76   4817.6

   d. 9×5.48 493.2   49.32   4.932   0.4932

2. Pedro is building a spice rack with 4 shelves that are each 0.55 meter long. At the hardware store, Pedro finds that he can only buy the shelving in whole meter lengths. Exactly how many meters of shelving does Pedro need? Since he can only buy whole-number lengths, how many meters of shelving should he buy? Justify your thinking.

3. Marcel rides his bicycle to school and back on Tuesdays and Thursdays. He lives 3.62 kilometers away from school. Marcel's gym teacher wants to know about how many kilometers he bikes in a week. Marcel's math teacher wants to know exactly how many kilometers he bikes in a week. What should Marcel tell each teacher? Show your work.

4. The poetry club had its first bake sale, and they made $79.35. The club members are planning to have 4 more bake sales. Leslie said, "If we make the same amount at each bake sale, we'll earn $3,967.50." Peggy said, "No way, Leslie! We'll earn $396.75 after five bake sales." Use estimation to help Peggy explain why Leslie's reasoning is inaccurate. Show your reasoning using words, numbers, or pictures.

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Name _____   Date _____

1. Choose the reasonable product for each expression.   Explain your thinking in the spaces below using
    words, pictures, or numbers.

    a. 2.1×3 0.63   6.3   63   630

    _____

    b. 4.27×6 2562   256.2   25.62   2.562

    $4 \times 6 = 24$

    _____

    c. 7×6.053 4237.1   423.71   42.371   4.2371

    _____

    d. 9×4.82 4.338   43.38   433.8   4338

2. Yi Ting weighs 8.3 kg. Her older brother is 4 times as heavy as Yi Ting. How much does her older brother
    weigh in kilograms?

DUVAL MATH

3. Tim is painting his storage shed. He buys 4 gallons of white paint, and 3 gallons of blue paint. Each gallon of white paint costs $15.72, and each gallon of blue paints is $21.87. How much will Tim spend in all on paint?

4. Ribbon is sold at 3 yards for $6.33. Jackie bought 24 yards of ribbon for a project. How much did she pay?

DUVAL MATH

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Name _____   Date _____

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

    a. 4 groups of _____ tenths is 1.6.   1.6 ÷ 4 = _____

    b. 8 groups of _____ hundredths is 0.32.   0.32 ÷ 8 = _____

    c. 7 groups of _____ thousandths is 0.084.   0.084 ÷ 7 = _____

    d. 5 groups of _____ tenths is 2.0.   2.0 ÷ 5 = _____

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

    a. 4.2 ÷ 7 = _____ tenths ÷ 7 = _____ tenths = _____

    b. 2.64 ÷ 2 = _____ ones ÷ 2 + _____ hundredths ÷ 2

        = _____ ones + _____ hundredths

        = _____

    c. 12.64 ÷ 2 = _____ ones ÷ 2 + _____ hundredths ÷ 2

        = _____ ones + _____ hundredths

        = _____

    d. 4.26 ÷ 6 = _____ tenths ÷ 6 + _____ hundredths ÷ 6

        = _____

        = _____

DUVAL MATH

e.   4.236 ÷ 6 = _____

   =   _____

   =   _____

3.   Find the quotients. Then, use words, numbers, or pictures to describe any relationships you notice between each pair of problems and quotients.

   a.   32 ÷ 8 = _____   3.2 ÷ 8 = _____

   b.   81 ÷ 9 = _____   0.081 ÷ 9 = _____

4.   Are the quotients below reasonable? Explain your answers.

   a.   5.6 ÷ 7 = 8

   b.   56 ÷ 7 = 0.8

   c.   0.56 ÷ 7 = 0.08

5. 12.48 milliliters of medicine were separated into doses of 4 mL each. How many doses were made?

6. The price of milk in 2013 was around $3.28 a gallon. This was eight times as much as you would have probably paid for a gallon of milk in the 1950s. What was the cost for a gallon of milk during the 1950s? Use a tape diagram, and show your calculations.

DUVAL COUNTY
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Name _____   Date _____

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

   a. 3 groups of __**5**__ tenths is 1.5.   1.5 ÷ 3 = _____

   b. 6 groups of _____ hundredths is 0.24.   0.24 ÷ 6 = _____

   c. 5 groups of __**9**__ thousandths is 0.045.   0.045 ÷ 5 = __**0.009**__

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

   a. 9.36 ÷ 3 = __**9**__ ones ÷ 3 + __**36**__ hundredths ÷ 3
                     $_{9 \div 3}$
      = __**3**__ ones + __**12**__ hundredths

      = __**3.12**__

   b. 36.012 ÷ 3 = _____ ones ÷ 3 + _____ thousandths ÷ 3

      = _____ ones + _____ thousandths

      = _____

   c. 3.55 ÷ 5 = _____ tenths ÷ 5 + _____ hundredths ÷ 5

      = _____

      = _____

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d. $3.545 \div 5 =$ _____

   $=$ _____

   $=$ _____

3. Find the quotients. Then, use words, numbers, or pictures to describe any relationships you notice between each pair of problems and quotients.

   a. $21 \div 7 =$ _____ $2.1 \div 7 =$ _____

   b. $48 \div 8 =$ __6__ $0.048 \div 8 =$ __.006__

   The first quotient is 1,000 times greater than the second.

4. Are the quotients below reasonable? Explain your answers.

   a. $0.54 \div 6 = 9$

   b. $5.4 \div 6 = 0.9$

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c. $54 \div 6 = 0.09$

5. A toy airplane costs $4.84. It costs 4 times as much as a toy car. What is the cost of the toy car?

$$4.84 \div 4 =$$

4 **ones** $\div 4 + 8$ **tenths** $\div 4 + 4$ **hundredths** $\div 4 =$

1 **one** $+ 2$ **tenths** $+ 1$ **hundredth**

$$4.84 \div 4 = 1.21$$

The car costs $1.21.

6. Julian bought 3.9 liters of cranberry juice, and Jay bought 8.74 liters of apple juice. They mixed the two juices together, and then poured them equally into 2 bottles. How many liters of juice are in each bottle?

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Name _____   Date _____

1. Draw place value disks on the place value chart to solve. Show each step using the standard algorithm.

a. 4.236 ÷ 3 = _____

Ones	Tenths	Hundredths	Thousandths

$3\overline{)4.236}$

b. 1.324 ÷ 2 = _____

Ones	Tenths	Hundredths	Thousandths

$2\overline{)1.324}$

DUVAL MATH

2. Solve using the standard algorithm.

a. 0.78 ÷ 3 = _____	b. 7.28 ÷ 4 = _____	c. 17.45 ÷ 5 = _____

3. Grayson wrote 1.47 ÷ 7 = 2.1 in her math journal.
    Use words, numbers, or pictures to explain why Grayson's thinking is incorrect.

4. Mrs. Nguyen used 1.48 meters of netting to make 4 identical mini hockey goals. How much netting did she use per goal?

5. Esperanza usually buys avocados for $0.94 apiece. During a sale, she gets 5 avocados for $4.10. How much money did she save per avocado? Use a tape diagram, and show your calculations.

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Name _____   Date _____

1. Draw place value disks on the place value chart to solve. Show each step using the standard algorithm.

a. 5.241 ÷ 3 = _____

Ones	Tenths	Hundredths	Thousandths

$$3 \overline{)5.241} = 1.747$$

b. 5.372 ÷ 4 = _____

Ones	Tenths	Hundredths	Thousandths

$$4 \overline{)5.372}$$

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2. Solve using the standard algorithm.

a. $0.64 \div 4 =$ _____	b. $6.45 \div 5 =$ _____	c. $16.404 \div 6 =$ _____

3. Mrs. Mayuko paid $40.68 for 3 kg of shrimp. What's the cost of 1 kilogram of shrimp?

Mrs. Mayuko paid $13.56 per kg.

$$\begin{array}{r} 13.56 \\ 3\overline{)40.68} \\ -39 \\ \hline 16 \\ -15 \\ \hline 18 \\ -18 \\ \hline 0 \end{array}$$

4. The total weight of 6 pieces of butter and a bag of sugar is 3.8 lb. If the weight of the bag of sugar is 1.4 lb, what is the weight of each piece of butter?

DUVAL MATH

Name _____   Date _____

1. Draw place value disks on the place value chart to solve. Show each step in the standard algorithm.

    a.   0.5 ÷ 2 = _____

Ones	•	Tenths	Hundredths	Thousandths

$$2\overline{)0.5}$$

    b.   5.7 ÷ 4 = _____

Ones	•	Tenths	Hundredths	Thousandths

$$4\overline{)5.7}$$

2. Solve using the standard algorithm.

a. 0.9 ÷ 2 =	b. 9.1 ÷ 5 =	c. 9 ÷ 6 =
d. 0.98 ÷ 4 =	e. 9.3 ÷ 6 =	f. 91 ÷ 4 =

3. Six bakers shared 7.5 kilograms of flour equally. How much flour did they each receive?

4. Mrs. Henderson makes punch by mixing 10.9 liters of apple juice, 0.6 liters of orange juice, and 8 liters of ginger ale. She pours the mixture equally into 6 large punch bowls. How much punch is in each bowl? Express your answer in liters.

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Name _____   Date _____

1. Draw place value disks on the place value chart to solve. Show each step in the standard algorithm.

a.   0.7 ÷ 4 = _____

Ones	●	Tenths	Hundredths	Thousandths

$$4\overline{\smash{)}0.7}$$

b.   8.1 ÷ 5 = _____

Ones	●	Tenths	Hundredths	Thousandths

$$5\overline{\smash{)}8.1}$$

DUVAL MATH

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2. Solve using the standard algorithm.

a. $0.7 \div 2 =$	b. $3.9 \div 6 =$	c. $9 \div 4 =$
d. $0.92 \div 2 =$	e. $9.4 \div 4 =$	f. $91 \div 8 =$

3. A rope 8.7 meters long is cut into 5 equal pieces. How long is each piece?

$8.7 \div 5 = 1.74$

1 piece of rope = 1.74 m long.

? ? ? ? ?
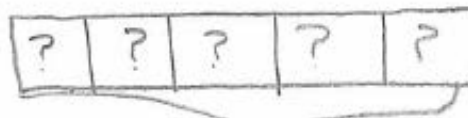
5 pieces of rope = 8.7 m

$$\begin{array}{r} 1.74 \\ 5\overline{)8.70} \\ -5 \\ \overline{3} \\ -35 \\ \overline{20} \\ -20 \\ \overline{0} \end{array}$$

4. Yasmine bought 6 gallons of apple juice. After filling up 4 bottles of the same size with apple juice, she had 0.3 gallon of apple juice left. How many gallons of apple juice are in each container?

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Solve.

1. Mr. Frye distributed $126 equally among his 4 children for their weekly allowance.

    a. How much money did each child receive?

    b. John, the oldest child, paid his siblings to do his chores. If John pays his allowance equally to his brother and two sisters, how much money will each of his siblings have received in all?

2. Ava is 23 cm taller than Olivia, and Olivia is half the height of Lucas. If Lucas is 1.78 m tall, how tall are Ava and Olivia? Express their heights in centimeters.

3. Mr. Hower can buy a computer with a down payment of $510 and 8 monthly payments of $35.75. If he pays cash for the computer, the cost is $699.99. How much money will he save if he pays cash for the computer instead of paying for it in monthly payments?

4. Brandon mixed 6.83 lb of cashews with 3.57 lb of pistachios. After filling up 6 bags that were the same size with the mixture, he had 0.35 lb of nuts left. What was the weight of each bag? Use a tape diagram, and show your calculations.

5. The bakery bought 4 bags of flour containing 3.5 kg each. 0.475 kg of flour is needed to make a batch of muffins, and 0.65 kg is needed to make a loaf of bread.

   a. If 4 batches of muffins and 5 loaves of bread are baked, how much flour will be left? Give your answer in kilograms.

   b. The remaining flour is stored in bins that hold 3 kg each. How many bins will be needed to store the flour? Explain your answer.

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Solve using tape diagrams.

1. A gardener installed 42.6 meters of fencing in a week. He installed 13.45 meters on Monday and 9.5 meters on Tuesday. He installed the rest of the fence in equal lengths on Wednesday through Friday. How many meters of fencing did he install on each of the last three days?

2. Jenny charges $9.15 an hour to babysit toddlers and $7.45 an hour to babysit school-aged children.

    a. If Jenny babysat toddlers for 9 hours and school-aged children for 6 hours, how much money did she earn in all?

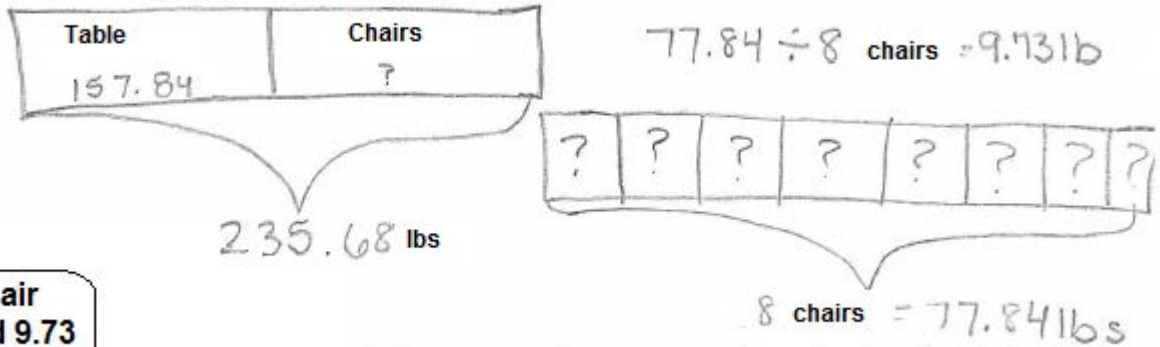   b. Jenny wants to earn $1,300 by the end of the summer. How much more will she need to earn to meet her goal?

3. A table and 8 chairs weigh 235.68 lb together. If the table weighs 157.84 lb, what is the weight of one chair in pounds?

$235.68 - 157.84 = 77.84$ lbs (total weight of all chairs)

Table	Chairs
157.84	?

235.68 lbs

$77.84 \div 8$ chairs $= 9.73$ lb

| ? | ? | ? | ? | ? | ? | ? | ? |

8 chairs $= 77.84$ lbs

Each chair weighed 9.73 lbs.

4. Mrs. Cleaver mixes 1.24 liters of red paint with 3 times as much blue paint to make purple paint. She pours the paint equally into 5 containers. How much blue paint is in each container? Give your answer in liters.