



Measuring Up

Convert each measurement. Use a calculator to check for accuracy.

12 inches (in.) = 1 foot (ff)

$$3 ft = 1 yard (yd)$$

$$4.24 ft =$$

_____ yd

_____ ft

_____ in.

Metric units of weight are milligrams (mg), grams (g), and kilograms (kg),

$$1 g = 1000 \text{ mg}$$

 $1 \text{ kg} = 1000 \text{ g}$

$$1 \text{ kg} = 1000 \text{ g}$$

63 kg = (63 x 1000) g

1 mg =
$$0.001$$
 g
32 mg = (32×0.001) g

$$1 \text{ mg} = 0.001 \text{ g}$$

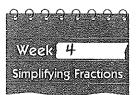
$$63 \text{ kg} = 63,000 \text{ g}$$

$$32 \text{ mg} = 0.032 \text{ g}$$

$$1g = 0.001 \text{ kg}$$

_____ mg





Geographic Wonders

What is the world's largest country? The largest desert? The smallest continent? Do this fraction match-up to discover the answers. Each geographic "wonder" listed below is followed by a fraction. Reduce the fraction to its lowest terms. Then correctly match it to one of the fractions in the right column and you'll find the name of the geographic wonder or its location. Write that name or place on the line.

$$\Rightarrow$$
 Example: $\frac{15}{20} = \frac{3}{4}$



Geographic Wonders

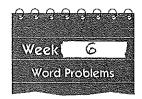
39

1.	World's largest desert	312	
2.	Largest country (land)	2 18	
3.	World's largest city	19 38	
4.	Highest waterfall	100 110	
	Largest country (population)	<u>6</u> 30	
6.	Smallest continent	3 21	
7.	Largest cave system	12 18	
8.	World's highest mountain	<u>3</u>	
9.	Second largest country	12 48	
10.	World's longest river	<u>5</u> 30	

Place

<u>1</u>	Australia
<u>1</u>	China
<u>1</u>	Canada
$\frac{1}{8}$	Sahara
$\frac{2}{3}$	Mammoth – Flint Ridge
<u>10</u>	Salto Angel in Venezuela
16	Nile
1 3	Everest
<u>1</u>	Russia
$\frac{1}{2}$	Tokyo, Japan





Money Problems

Use the necessary operations, such as addition, subtraction, multiplication, and division, to solve the following money word problems. Do your work on a separate sheet of paper.

BOX YOUR FINAL ANSWER

1. Kia and Luc had \$20.00 each to spend at the mall. They planned to shop first, then see a movie. Kia bought a T-shirt for \$12.38; her movie ticket was \$6.75. Luc rented two video games for \$1.50 each, and his movie ticket was \$6.75. How much did each person spend in all at the mall?

Kia_____Luc___

4. Frannie went to the local surf shop with \$40.00. She bought some board wax and a skim board. The board cost \$35.00, and wax cost \$1.75. How much money does Frannie have left?

- 2. Mark and Jon attend the same soccer camp. The camp costs \$195.00 per person, per week. The boys also have to pay their own travel costs to and from camp. If the boys ride up and back together, they only spend \$80.00 on gas. Find the total each boy will pay to cover camp and travel costs for a week.
- 5. Mrs. Carney owns a restaurant. She has several lunch specials on the menu that are only \$4.99 each. They include an entrée, a soup, and a beverage. This week, 72 customers ordered one of the specials. How much money did she make this week from the lunch specials?

\$4.99 x 12

- 3. Madison and Julia run a pet-sitting service for dogs. They charge \$4.00 for dog walking, \$12.00 for bathing, and \$25.00 for overnight boarding. If a customer orders a bath with overnight boarding, the girls charge \$30.00 for that combination. A new dog, Cash, is going to board overnight, have a bath, and go on two walks. What is the total cost for these services?
- 6. Mrs. Kaye owns a small amusement park with a water slide, a miniature golf course, and a two-mile zip line. A day pass for the water slide costs \$45.00. One round of golf costs \$15.00, and a zip line ride costs \$36.00. What will Mrs. Kaye earn today if she sells 5 zip-line tickets, 22 water-slide day passes, and 10 rounds of golf?

Rainfall in Inches

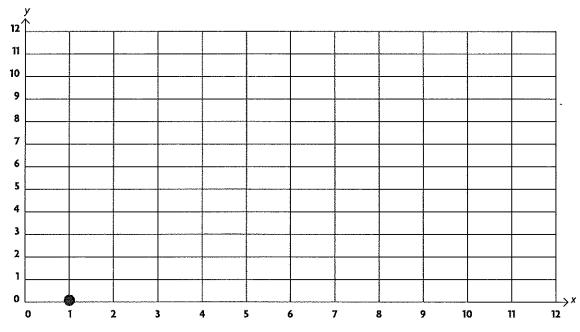




Plotting Coordinates on a Graph

Plot each of the given ordered pairs on the coordinate plane below. Note: Ordered pairs or "coordinates" are written with respect to the \boldsymbol{x} axis & \boldsymbol{y} axis (\boldsymbol{x} , \boldsymbol{y}). See example given.

Amy's Rainfall Record—2011



Month of the Year

- 1. (1, 0) 🗸
- 7. **(5,10)**

2. (3, 4)

8. (9,3)

3. (6, 7)

9. (12,1)

4. (8,2)

10. (7, 2)

5. (2,1)

11. (10, 5)

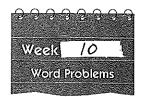
6. (4,12)

12. (11, 6)



Summer Express: Between Grades 5 & 6





Multiply It!

Solve each multiplication word problem. Write the answer in the space provided.

show all work . Box your final answer.

 Each day after school, Carlos purchases yogurt and a banana for a total of \$3.29.
 How much does Carlos spend on his snacks each week?

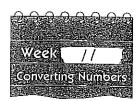
\$\frac{3}{3}.\frac{2}{9} - \text{a decimal places}\$\$\$\$ \text{x} \quad \frac{7}{2} \text{0 decimal places}\$\$\$\$ \frac{2}{3}.\frac{2}{9} \frac{2}{3} \frac{1}{4} \frac{2}{3}.\frac{1}{3} \frac{1}{4} \frac{2}{3}.\frac{1}{3} \frac{1}{3} \fr

4. Mr. Richards sold 140 bushels of apples. If he receives \$15.50 per bushel, how much money did he earn?

- 2. In July, the aquarium sold 5 times as many tickets as it did in June. The aquarium sold 987 tickets in June. How many tickets did the aquarium sell in July?
- 5. Sally collected 7 times as many aluminum cans to recycle as Alan. Alan collected 2,999 aluminum cans. How many cans did Sally collect for the recycling drive?

- 3. Peter saw in a newspaper ad that shirts were on sale at the mall for \$23.45 each. If he purchased 6 shirts, how much would Peter spend?
- 6. Tony's printer is out of ink. Ink sets for his printer cost \$18.49 for the color ink pack and \$9.49 for the black ink pack. If Tony purchases 5 color packs and 9 black packs, how much will he spend in all?





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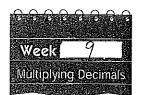
Using a Number Line

Use the first set of number lines to answer questions 1 through 5 below. Then, use what you know about decimals, fractions, percents, and how to convert them to fill in the missing values in the number lines at the bottom of this page.

hole numbei	'S:			•			
			1				2
						-	
fractions:	.16.	v	4	N 17	***		_
0 1/4	- ¹ / ₂	3/4		11/4	1½	13/4	2
decimals:	····		1	<u> </u>			
0 .25	.50	.75	1.0	1.25	1.50	1.75	2.0
percents:			1				
0 25%	50%	75%	100%	125%	150%	175%	200%
3. What is the						ercent?	& _
4. What decir	nai amoun		as much a	s 50%?	9		
5. List the dec	imal and p	ercent ec	quivalents	for the val	ue halfway	/ between	1 ¼ and ¾:
a) decimal		b) perce	entage:			•	
ill in the missing	g fractions:				-		
<u> </u>	<u>½</u>			11/4			2
ill in the missing	a decimais						
	y accimidis		•				
			1.00	1.25			2







Multiplying Decimals

Review the rules for multiplying decimals. Then solve the problems.

5.99

x '5.6

8.

	Rules		Example:		
		ould whole numbers. imal places in the product ecimal places in the factors.	Factor Factor Product	.4 <u>x .9</u> .36	1 decimal place 1 decimal place 2 decimal places
	Remember: When you horizontally, line up to Do not line up the de	.35 x 0.8 =	Correct .35 x 0.8	Incorrect .35 <u>x 0.8</u>	
1.	.6 <u>x .4</u>	5. 6.8 x 0.35	9. 4.8 <u>x 7.7</u>	13.	2.23 x 0.337
2.	9.4 <u>x 7.6</u>	6. 9.27 <u>x 6.6</u>	10. 5.6 <u>x 7.6</u>	14.	1.6 <u>x 0.797</u>
3.	3.1 <u>x 6.3</u>	7. 2.2 <u>x 9.49</u>	11. 2.9 <u>x 6.15</u>	15.	0.72 <u>x 5.79</u>

12.

8.6

x 5.8

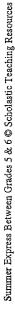
16.

7.71 x 0.226

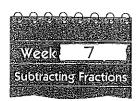
4.

2.9

x 1.5







Fraction Subtraction

Find each difference. Reduce. Study the example below.

Example:

$$6\frac{2}{3} = \frac{20}{3} \times \frac{4}{4} = \frac{80}{12}$$

$$-3\frac{1}{4} = \frac{13}{4} \times \frac{3}{3} = \frac{39}{12}$$

$$\frac{41}{12} = \boxed{3 \frac{5}{12}}$$

- 2. Find the least common denominator and rewrite fraction.
- 3. Subtract. Reduce if necessary.
- 4. Box your final answer!

1.
$$8\frac{3}{4}$$

4.
$$16\frac{5}{8}$$

7.
$$6\frac{1}{2}$$
 $-5\frac{1}{3}$

2.
$$10\frac{1}{3}$$
 $-2\frac{2}{5}$

5.
$$8\frac{1}{2}$$
 $-3\frac{2}{7}$

8.
$$14\frac{3}{8}$$
 $-5\frac{3}{4}$

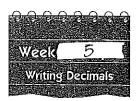
3.
$$9\frac{4}{5}$$
 $-7\frac{6}{10}$

6.
$$8\frac{9}{10}$$
 $-3\frac{2}{5}$

9.
$$12\frac{1}{2}$$

- $3\frac{1}{4}$





Every Number Has Its Place

Write each decimal in standard form on the lines below. Fit the number into the puzzle. The decimal points occupy one space and are already written in the puzzle.

1. three and forty-four hundredths

3.44

2. four and six tenths

3. forty-one and seven tenths

4. four thousand sixteen and thirty-two hundredths

5. nine hundred forty-seven and thirty-six hundredths

6. six and five tenths

7. fifty-six and four tenths

8. one and thirty-five hundredths

9. one and six thousandths

10. forty-five and sixty-three hundredths

11, fifteen and three tenths

12. three hundred seventeen and nine tenths

13. three thousand seven and fifty-five hundredths

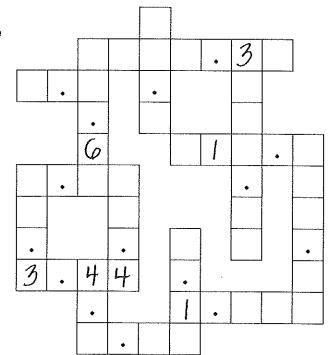
14. six and nineteen hundredths

15. six and ninety-nine hundredths



EX:



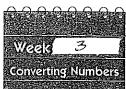


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Fractions, Decimals, and Percents

Write each fraction as a percent. Round to the nearest hundredth,

Follow these rules: 1) Change the fraction to a decimal (numerator ÷ denominator).

2) Change the decimal to a percent (multiply by 100). A percent compares a quantity to 100, If you can make an equivalent fraction with a denominator of 100, then the numerator equals the percent.

1.
$$\frac{3}{5} = \frac{9}{0}$$
 3. $\frac{4}{25}$ 5. $\frac{17}{25}$ 7. $\frac{67}{100}$ —

4.
$$\frac{22}{100}$$

2.
$$\frac{1}{2}$$
 _____ 6. $\frac{12}{50}$ ____ 8. $\frac{11}{25}$ _____

Write each decimal as a percentage. Remember: Decimals that name hundreds can be written easily as percentages because percent means "per hundred."

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Example: $0.45 = \frac{45}{100} = 45\%$





Reviewing the Basics

12. **871**
$$\times$$
 415 =

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You may need to use a separate sheet of paper. Write neatly.