





Problem	Work & Answer
Give the sum or difference: a.) $8-15$ b.) $-8-15$	
c.) -8 + 15 d.) -8 + (-15)	
Find the value of a and b.	
$(2b + 42)^{\circ}$ $(3a + 4)^{\circ}$	
134°	
Simplify each expression by combining like terms.	
a.) $11x-7-3x+4$	
b.) 21a + (-18b) - 6a + 11b	
c.) $-7w + 2w - 12w - w$	
Find the width of a rectangular prism if the volume is 546cm³, the height is 7cm and the length is 13cm.	
It takes Billy fifteen minutes to complete $\frac{1}{8}$ of a recipe. At this rate how long will it take for him to complete the recipe?	



Work & Answer

_	τ
7	7
	ر
()
7	D
<u>`</u>	Į

b.) $\frac{3}{4}$ x = -24 c.) 36 = y + 14

a.) $\frac{w}{-12} = 3$

Solve for each variable.

Simplify each expression:

- a.) $-72 \div 8 + (-6) 2$
- b.) $-4 + (-32) \div (-4 \cdot 4)$

sample which group is the population and which is the through 5th at Lincoln Elementary school. Identify what flavor slushy children ages 8 through 11 prefer. The company decides to ask students in grades 3rd A convenience store company would like to know

sale of this house? commission. How much did Nancy earn for the Nancy sold a house for \$225,900 and earned 4%

of popcorn and candy sold at a movie theater. relationship between the amount of small boxes Complete the table that shows a proportional

_ Students ir	
grades 3-5	
Students in grades 3-5 at Lincoln school	
chool	

Children ages 8 through 11

	48	12		Candy (small boxes)
528		96	24	Popcorn (small boxes)





Problem	Work	& Answer
Trail mix made for three people uses 3 cups of almonds, 1 cup of raisins and 1/3 cup of chocolate		
chips. If the same ratio of ingredients is used for twelve people, how much of each ingredient is		
needed?		
Expand each expression using the distributive property.	,	
a.) $2(5x-3)$		
b.) -4(2a + 6b - 7)		
c.) 8(-3m + 2n) + 12		
Find each product.		
a.) -7 x 6 b.) -6 x -7		
c.) -7 x -6 d.) -6 x 7		
When Sarah invests \$4000 in a money market account she receives 1.4% simple interest annually. If she doesn't add or subtract any money how much interest will she earn after 4 years?		
A bag of jelly beans contains 6 red, 4 orange, 5 pink, 3 green and 2 white jelly beans. What is the		
a.) 1 Pink jelly bean b.) 1 Red jelly bean		
c.) Either 1 white or green jelly bean		

Problem	Work	& Answer
Anna earned \$9 an hour babysitting. She wants to buy a 16 GB iPod that is \$120. Anna has saved \$45 so far. How many more hours of babysitting does she need to do to earn the rest to purchase the iPod?		
Solve each inequality.		
b.) -2 > x + 3		
C.) $\frac{1}{2}(x+4) \le 14$		
Simplify each complex fraction.		
a.) $\frac{2\frac{1}{4}}{1\frac{1}{8}}$ b.) $\frac{7\frac{1}{3}}{4}$	\$.	
An item is marked down by 25%. What percentage of the original cost will you pay?		
Find a new perimeter and area if the shape is enlarged by a scale factor of two. 5.5 cm		
3.25cm		





,	A rectangular pyramid is sliced by a plane parallel to its base. What shape is shown from the cross section?
	Joe and two friends are going to a concert. The total cost is \$186. If there is a \$24 service fee, write and solve an equation to find out how much one ticket is.
	Write an expression to show the total cost of an item x with a 35% discount.
	Find the diameter of a circle if the area is 153.86m². Use 3.14 for pi.
	Write the property that best matches the following: a.) 13+-13=0 b.) (-12) + 16 = 16 + (-12)
Work & Answer	Problem







Problem	Work & Answer
Four friends equally share the cost of their dinner that was \$64 plus a 20% tip. If each person contributes \$19, will that be enough to cover the bill with tip? Explain.	
Solve the following: a.) $\frac{-24}{3}$ b.) $\frac{-36}{-4}$	
People in two sample groups were asked to identify their favorite kind of pizza. Study the results and circle a generalization.	a.) Cheese is the most popular in each group.
Sample Cheese Sausage Pepperoni Veggie Total A 30 45 7 18 100	b.) Overall cheese and sausage are most preferred.c.) Sausage is always the favorite.
B 48 24 15 13 100	
Factor each by using the GCF. a.) $36 \times +81$ b.) $24a +36$	
Find the following based on the circle. Use 3.14 for pi. a.) The area of the circle b.) The circumference of the circle	







Problem	Work & Answer
Circle which has the same value as the following:	a.) (-6 + 9) - 14
-6 + (-9 + 14)	b.) (6-9) + 14
	c.) (-6 + -9) + 14
Find the surface area of the given prism:	
4m	
8m 3m	
The asking price on a house was \$350,000. Because it was on the market for six months it was finally sold for \$297,500. What percentage of the original price was it sald for?	
Solve each inequality.	
a.) $3x < -24$ b.) $14 \le -7x$	
c.) $4x - 8 > -40$	
Divide. Write the answer in simplest form.	
$\begin{array}{c} -2\frac{1}{3} \div 1\frac{1}{12} \end{array}$	







Problem Work & Answer

choosing the following: standard deck of cards. What is the probability of A playing card is chosen at random from a

a.) P(5 of Diamonds) b.) P(One Jack)

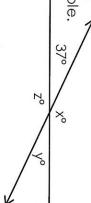
Simplify each expression.

a.) -13 + 25 - 36 + -2 b.) $-54 \div 9 \times -7 \div 6$

a.) P(5 of Diamonds) =

b.) P(One Jack)=

of each variable. Find the value



\$21,500. How much commission did Sam earn for Sam sells cars and earns 3.5% commission in sales the day? In one day he sold 3 of the same cars each for

will it take her to finish mowing her backyard? It takes Amy 8 minutes to mow 1/6 of her backyard. At that rate how many more minutes





	Draw the cross section.
	perpendicular to its base.
	A triangular pyramid is sliced by a plane
	D.) -9 > 3D + 6
	$\alpha = 12\alpha + 7 < 31$
	Solve each inequality and graph the solution on a number line.
	\$25.
	percent of decrease if the sweatshirt was originally
	The post of a supertable transport of the 10 Tight the
	for ten people?
	enough for 2 people. How much shaving cream
	cream, ½ cup of glue, ½ teaspoon of baking soda
	A recipe for fluffy slime calls for 3 % cups of shaving
	D.J $3x - 4(x + 2y) + 1/y$
	5 10: Alv 0.1 - 17.
	$\alpha.) -7 + 13 + 5(-6 + 8)$
	Simplify each expression.
Work & Answer	Problem





Problem Find the circumference of the circle below. Use $\frac{22}{7}$ for pi.	Work & Answer
Problem	Work & Answer
Find the circumference of the circle below. Use $\frac{22}{7}$ for pi. $r = 10.5 \text{mm}$	

and has one large piece of wrapping paper left. The size of the paper is 6 feet by 4 feet. Will Anna is wrapping a birthday gift for her brother

she have enough paper to cover a box that is 12in x 6in x 4in?

Simplify the complex fractions a.) $8\frac{2}{5}$

b.)
$$\frac{3}{9}$$
 $\frac{1}{4}$

Solve each equation below.

a.)
$$5x + 8 = 53$$
 b.) $-6w - 12 = 51$ c.) $\frac{y}{4} + 12 = -8$

know what the sign of your answer will be. Find the sum of each below. Describe how you

b.)
$$-6 + (-5)$$

\times \t

8th Grade Summer Math Quiz •



Complete the following problems. Remember to show your work; use an extra sheet of paper if necessary.

0		
1.) Simplify: 4(a – 2b + 3c) + 11a	2.) Find each product or quotient.	3.)A salad made for three people uses one head of lettuce, 3 tomatoes, and 6
	a.) $-21 \div -7$ b.) -3×4	mushrooms. If the same ratio is used in a salad for ten people how many heads of
	c.) -5 x -6 d.) 48 ÷ -6	lettuce are needed?
4.) Find the surface area of a cube that has a side length of 3.5 inches.	5.) A bag of marbles contain 7 blue, 6 green, 3 yellow and 2 red. What is the probability of randomly choosing 1 blue or red marble?	6.) Solve the equation: $2x-7=-23$
7.) Susan's haircut was \$18. If she gives a 20% tip, what will her total cost be?	8.) Find the radius of the circle that has an area of 200.96cm².	9.) Find the value of a. $ \begin{array}{c} $
10.) It takes Samantha four minutes to walk one-sixth of the way home from school. At this rate how long will it take her to get home?	11.) Solve the inequality 3x + 9≥24.	12.) Robert invests \$3,250 into a money market account with an annual 1.7% simple interest rate. If he does not add or subtract any money, how much interest will he earn after three years?
13.) Simplify: 12 – 3 x 5 + 2 ³	14.) A triangular pyramid is sliced by a plane parallel to its base. What shape is this cross section?	15.) Simplify this complex fraction. $ \frac{4 \frac{4}{6}}{2 \frac{1}{3}} $