Dear Soon to Be 8th Graders and Parents of Soon to Be 8th Graders,

you have already learned so that your skills are sharp and ready to begin 8th grade math. intent. This was created to make you math aficionados, especially as you prepare to begin math in This summer math calendar has not been created to torture you. It was created with the opposite the eighth grade! To help you do this, I have put together this calendar with math concepts that

parents, and most importantly your brain to complete the calendar. You must show all of your work will not complete it! This calendar is meant for you to maintain your skills. You may use siblings, you do not leave the calendar until the week or even the day before school begins. Trust me, you the week in one day or you may spend five minutes a day completing each problem. All I ask is that and the work should be done in pencil. You may work on the calendar in whichever way best suits your style. You may do the problems for Each week you will be assigned five sets of problems to complete. You may choose when to do it.

luck! Have a fabulous summer! I cannot wait to see you in the fall! Lastly, please complete the evaluation forms. There is one for you and one for your parents. Good

Sincerely,

Mr. Stafford

Problem Work & Answer

c.) -8 + 15	a.) 8-15	Give the sum or difference:
d.) -8 + (-15)	b.) -8 – 15	r difference:

(2b +42)° $(3a + 4)^{\circ}$

terms.	Simplify
	each exp
	expressic
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a.)
$$11x-7-3x+4$$

c.)
$$-7w + 2w - 12w - w$$

length is 13cm.
volume is 546 cm ³ , the height is 7cm and the
Find the width of a rectangular prism if the

It takes Billy fifteen minutes to complete $\frac{1}{8}$ of a complete the recipe? recipe. At this rate how long will it take for him to

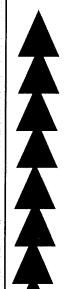


12 96	of popcorn and candy sold at a movie theater.
Candy (small boxes) Popcorn (small boxes)	Complete the table that shows a proportional relationship between the amount of small boxes
	Nancy sold a house for \$225,900 and earned 4% commission. How much did Nancy earn for the sale of this house?
Students in grades 3-5 at Lincoln school Children ages 8 through 11	A convenience store company would like to know what flavor slushy children ages 8 through 11 prefer. The company decides to ask students in grades 3 rd through 5 th at Lincoln Elementary school. Identify which group is the population and which is the sample.
	Simplify each expression: a.) -72 ÷ 8 + (-6) – 2 b.) -4 + (-32) ÷ (-4 · 4)
	Solve for each variable. a.) $\frac{w}{-12} = 3$ b.) $\frac{3}{4}x = -24$ c.) $36 = y + 14$
Work & Answer	Problem



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	
Expand each expression using the distributive property.	
a.) 2(5x - 3)	
b.) -4(2a + 6b - 7)	
c.) 8(-3m + 2n) + 12	
a.) -7 x 6 b.) -6 x -7	
c.) -7 × -6 d.) -6 × 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 probability of choosing the following at random? 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?	 A control of the dependence of the control of the dependence of the control of the
Solve each inequality. a.) x + 4 < 16	
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?	
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	



Problem	Work & Answer
Write the property that best matches the following:	
a.) $13 + -13 = 0$	
b.) (-12) + 16 = 16 + (-12)	
Find the diameter of a circle if the area is 153.86m². Use 3.14 for pi.	
Write an expression to show the total cost of an item x with a 35% discount.	
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.	
A rectangular pyramid is sliced by a plane parallel to its base. What shape is shown from the cross section?	
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Work & Answer
a.) Cheese is the most popular in each group.
b.) Overall cheese and sausage are most preferred.
C. J Caccago la diventa into la vollic.

a.) The area of the circleb.) The circumference of the circle

18in

Find the following based on the circle. Use 3.14 for pi.

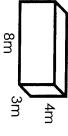


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Circle which has the same value as the following:

-6 + (-9 + 14)



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 sold for?

Solve each inequality.

a.)
$$3x < -24$$

b.)
$$14 \le -7x$$

c.)
$$4x - 8 > -40$$

Divide. Write the answer in simplest form.

$$-2\frac{1}{3} \div 1\frac{1}{12}$$

$$(6-9)+14$$

a.)
$$(-6+9)-14$$

b.) $(6-9)+14$
c.) $(-6+-9)+14$

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Problem	Work & Answer
A playing card is chosen at random from a standard deck of cards. What is the probability of choosing the following: a.) P(5 of Diamonds) b.) P(One Jack)	a.) P(5 of Diamonds) = b.) P(One Jack)=
Simplify each expression. a.) -13 + 25 - 36 + -2 b.) -54 ÷ 9 x -7 ÷ 6	A COMPANY OF THE PROPERTY OF T
Find the value of each variable. 37° x° x°	
Sam sells cars and earns 3.5% commission in sales. In one day he sold 3 of the same cars each for \$21,500. How much commission did Sam earn for the day?	
It takes Amy 8 minutes to mow 1/6 of her backyard. At that rate how many more minutes will it take her to finish mowing her backyard?	





Problem	Work & Answer
Simplify each expression.	
a.) $-7 + 13 + 5(-6 + 8)$ b.) $3x - 4(x + 2y) + 17y$	
A recipe for fluffy slime calls for 3 % cups of shaving cream, ½ cup of glue, ½ teaspoon of baking soda and 1 ½ tablespoons of saline solution; this is	
enough for 2 people. How much shaving cream would you need if you were making enough slime for ten people?	
The cost of a sweatshirt was on sale for \$18. Find the percent of decrease if the sweatshirt was originally \$25	
410.	
Solve each inequality and graph the solution on a number line.	
a.)-12a+7≤31	
b.) -9 > 3b + 6	
A triangular pyramid is sliced by a plane perpendicular to its base. Draw the cross section.	
	•

	Find the sum of each below. Describe how you know what the sign of your answer will be. a.) -19 + 8 b.) -6 +(-5)
	Solve each equation below. a.) $5x + 8 = 53$ b.) $-6w - 12 = 51$ c.) $\frac{y}{4} + 12 = -8$
	Simplify the complex fractions. a.) $8\frac{2}{5}$ b.) $3\frac{1}{3}$
	Anna is wrapping a birthday gift for her brother and has one large piece of wrapping paper left. The size of the paper is 6 feet by 4 feet. Will she have enough paper to cover a box that is 12in x 6in x 4in?
	Find the circumference of the circle below. Use $\frac{22}{7}$ for pi. $r = 10.5 \text{mm}$
Work & Answer	Problem

Name:



8th Grade Summer Math Quiz



Complete the following problems. Show your work using the extra workspace page.

X	And the second s	
15.) Simplify this complex fraction. $\frac{4\frac{4}{6}}{2\frac{1}{3}}$	14.) A triangular pyramid is sliced by a plane parallel to its base. What shape is this cross section?	13.) Simplify: 12-3 x 5 + 2³
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?	11.) Solve the inequality 3x +9≥24.	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?
9.) Find the value of a. $ \begin{array}{c} $	8.) Find the radius of the circle that has an area of 200.96cm².	7.) Susan's haircut was \$18. If she gives a 20% tip, what will her total cost be?
6.) Solve the equation: $2x-7=-23$	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?	4.) Find the surface area of a cube that has a side length of 3.5 inches.
lettuce are needed?	c.) -5 x -6 d.) 48 ÷ -6	
mushrooms. If the same ratio is used in a salad for ten people how many heads of	a.) -21 ÷-7 b.) -3 x 4	
3.)A salad made for three people uses one head of lettuce 3 tomatoes and 6	2.) Find each product or quotient.	1.) Simplify: 4(a – 2b + 3c) + 11a

8th Grade Summer Math Quiz Workspace

Use this space to show your work (if necessary) for each problem.

13.)	10.)	7.)	4.)	1.)
14.)	11.)	8.)	5.)	2.)
15.)	12.)	9.)	6.)	3.)

Summer Math Calendar Evaluation for Students

Please rate the following on a scale from 1-10, with 1 being the easiest and 10 being the hardest.

- math calendar? How would you rate the difficulty of the problems in general throughout the summer
- How would you rate the variety and number of problems throughout the calendar?
- 3.) What types of problems in the calendar were the most difficult and why?
- 4.) What types of problems in the calendar were the easiest and why?
- 5.) When did you complete the calendar? How did you pace yourself when completing the calendar? (Did you do it every day, once a week, completed it in a few days?)
- 6.) If you could change anything about the summer math calendar, what would you change

Thank you for taking the time to complete this evaluation! I really appreciate your input!

Summer Math Calendar Evaluation for Parents

- easy or too difficult or somewhere in the middle? 1.) How difficult did you feel this summer math calendar was for your student? Was it too
- 2.) How much help did you give your son or daughter in completing this calendar?
- 3.) What would you say was the best thing about the summer math calendar?
- 4.) What would you say was the most difficult thing about the summer math calendar?
- 5.) How did you feel about the amount of problems given to your student?

Thank you for taking the time to complete this evaluation! I really appreciate what you have to say!