

Incoming 7th grade Math Summer Assignment Sebastian Middle School



Summer 2016

2955 Lewis Speedway, St Augustine, FL 32084

We hope you had a wonderful 6th grade year and we hope you have a great summer. At Sebastian, we believe it is important to practice our math skills over the summer so that we are ready for the next school year. Student mastery of the basic math skills is as important to success in future mathematical procedures and reasoning as learning the alphabet is to reading and writing. In addition to the summer assignment, please be sure to review the following math concepts to prepare for 7th grade math:

- Multiplication (up to 12's)
- Adding & Subtracting two and three digit numbers
- Multiplying & Dividing two and three digit numbers
- Find the prime factorization of numbers from 2 through 50, express in exponential notation. Ex. $24 = 2 \times 2 \times 2 \times 3 = 2^3 \times 3^1$
- Multiply and divide by 10's, 100's and 1,000's using mental math.
- Add, subtract, multiply, and divide fractions

You can practice any math skill on your IXL account this summer; your account information will expire in August 2016. We challenge you to try to complete as many skills as you can with a 75% smart score or higher!

If you need another copy of the math assignment you can go on Sebastian's website at http://www-sms.stjohns.k12.fl.us/curriculum/sebastian-summer-learning/ and print another copy.

This packet will be due to your math teacher the first week of school. Should you have any questions, please feel free to contact Mr. McCoy at tracy.mccoy@stjohns.k12.fl.us.

Thank you,

Sebastian Math Department



C. a decrease of 19°F

D. an increase of 19°F

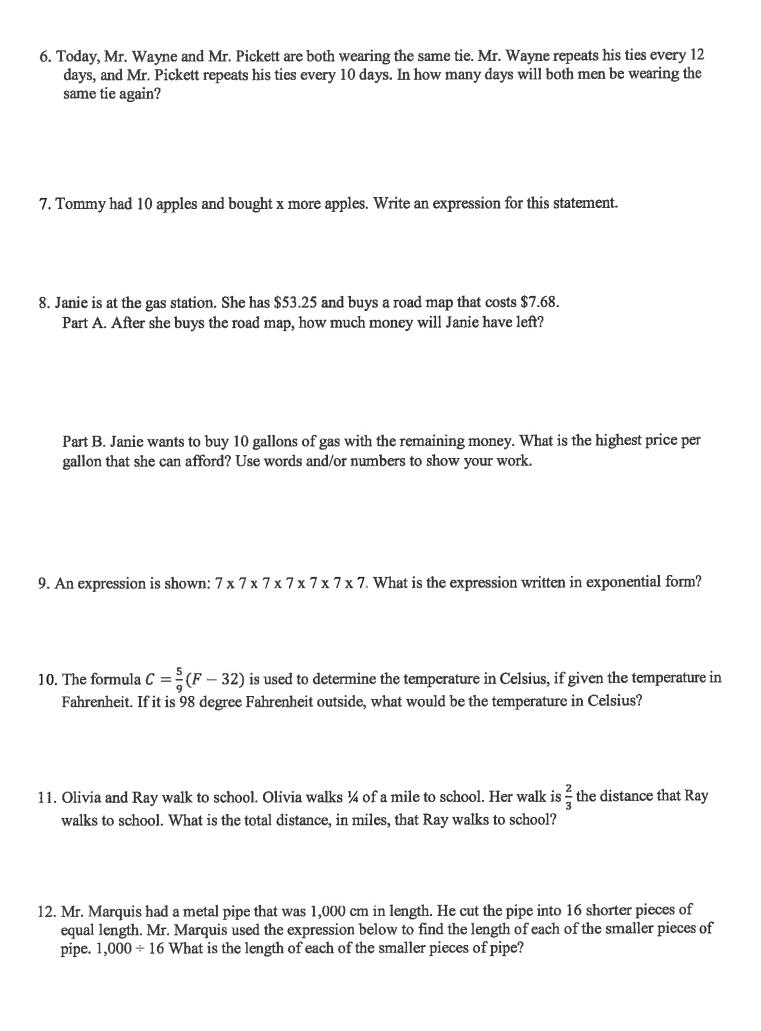
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Student N	lame:	
1. Des	termine the meaning of the following words:	
•	Product:	
•	Sum:	
•	Quotient:	
•	Difference:	
•	Expression:	
•	Equation:	
•	Rational Number:	
3. In a	survey, 13 out of 25 people surveyed have a cat. What percent of the people so	urveyed have a cat?
	a jogs $\frac{1}{5}$ kilometer in $\frac{1}{6}$ hour. What is Lara's rate in kilometers per hour? Write yrm.	your answer in decimal
	e temperature rises 15 degrees Fahrenheit (°F) and then drops by 8°F. If the tem -11°F what temperature change would be required to bring the temperature to	
A.	an increase of 4°F	
B.	a decrease of 4°F	



For questions 12-15, multiply or divide, showing all work. Do not use a calculator. $13.4.5 \div 0.9$

15.
$$\frac{6}{7} \times \frac{5}{9}$$

16.
$$\frac{5}{4} \div \frac{3}{8}$$

- 17. You have \$50 in your savings account. Each week you deposit \$5 into your account. Write an expression that models this situation.
- 18. Determine if the expressions 5 + 3b and 3b + 5 are equivalent, when simplified.
- 19. Order the numbers from least to greatest:
 (Hint: Change all of your numbers to decimals before comparing)

$$\frac{5}{8}$$
, 60%, 0.64, $\frac{3}{4}$, 0.756

20. Find the mean, median, mode, and range of the data set:

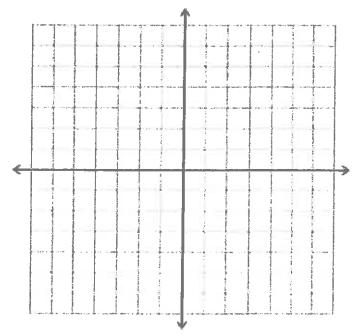
21. In the morning, Emily studied 40 minutes for a math test. Later that evening, she studied for x more minutes. Write an expression that represents this information.

22. A snack bar sells 5 items with a mean (average) price of \$0.60, as shown below.

Snack Menu		
Chips	\$0.50	
Juice	\$0.80	
.Apple	\$0.60	
Candy	\$0.70	
Gum	\$0.40	

Which pair of items could be added to the menu without changing the average price?

- (A) Banana for 60 cents
- (B) Soda for \$0.75
- (C) Cookie for \$0.50
- (D) Energy Bar for 45 cents
- (E) Soda for ¾ of a dollar
- 23. If a freight train travels at a speed of 20 miles per hour for 6 hours, how far will it travel?
- 24. Graph the following points on the graph and label them with the appropriate letter:
 - Point A: (-1,9)
 - Point B: (0,3)
 - Point C: (-4,0)
 - Point D: (2, -3)
 - Point E: (-8,-8)



- 25. Samuel's rectangular room has a perimeter of 44 feet. The length of the room is 11 feet.
 - (A) What is the area of his room?
 - (B) Samuel wanted to put new flooring in his room, so he went to the store to see how much it would cost. It costs \$12.10 per square feet. How much would it cost for the new flooring?

Find each sum.

$$5) 3 + 4$$

Find each difference.

16) 48 – (-31)

18) (-38) - 30

20) (-1) - (-40)

Evaluate each expression.

22) (-29) - 29

24) 38 + 22

26) (-12) + (-11)

27)
$$2 + 15 + 4$$

28) 16 + (-13) + 5

30) 10 + 3 = (-8)

Multiplying and Dividing Positives and Negatives

Date_____ Period___

Find each quotient.

1)
$$\frac{10}{5}$$

2)
$$\frac{-24}{12}$$

3)
$$\frac{-20}{-2}$$

4)
$$\frac{-300}{-20}$$

5)
$$\frac{65}{5}$$

6)
$$\frac{-66}{-6}$$

7)
$$\frac{75}{-15}$$

8)
$$\frac{-56}{-14}$$

9)
$$\frac{102}{-17}$$

10)
$$\frac{-72}{-4}$$

12)
$$12 \div -3$$

14)
$$-120 \div -20$$

17)
$$-85 \div -17$$

18)
$$128 \div -16$$

19)
$$-180 \div 15$$

20)
$$234 \div -13$$

Find each product.

21)
$$-11 \times 9$$

22)
$$-7 \times -12$$

23)
$$-8 \times -11$$

24)
$$-6 \times 4$$

25)
$$-3 \times -11$$

26)
$$-5 \times -9$$

27)
$$9 \times -7$$

28)
$$-9 \times -3$$

29)
$$12 \times -12$$

31)
$$6 \times -5 \times 3$$

32)
$$6 \times -1 \times 2$$

33)
$$8 \times -6 \times -3$$

34)
$$-3 \times 6 \times -6$$