



Incoming 6th grade Math Summer
Assignment
Sebastian Middle School
Summer 2016



2955 Lewis Speedway, St Augustine, FL 32084

Welcome to Sebastian Middle School! We are so excited to have you as a Sebastian Eagle. 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 6th 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.

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



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Student Name: _____

1. The word, simplify, means: _____

2. Use the order of operations to simplify the following expressions:

(A) $11 \times 11 - 6 \times 17 + 4$

(B) $2 - 1 + 5 \times 4 \times 11$

3. Determine the meaning of the following words:

• Product: _____

• Quotient: _____

• Sum: _____

• Difference: _____

• Equation: _____

4. What is the BEST estimate of $12.35 - 4.786$?

(A) Less than 7

(B) Less than 8

(C) Between 8 and 10

(D) More than 9

5. Bob had \$50.00, and he spent \$28.67 for a new backpack. How much money does he have left?

6. Ed has packages of beans that weighs 0.46 pounds, 1.02 pounds, and 2.9 pounds. What is the total weight of the beans?

(A) 3.48 pounds

(B) 4.38 pounds

(C) 4.56 pounds

(D) 8.70 pounds

7. Determine the product of the following expressions (you may want to rewrite the question to show work):

- 42×33

- 39×13

- 322×7

- 625×17

8. Find the quotient of the following expressions (you may want to rewrite the question to show work)

- $92 \div 4$

- $230 \div 5$

- $141 \div 3$

- $104 \div 8$

9. Find the next number in the pattern: 1.25, 1.43, 1.61, _____

(A) 1.79

(B) 1.97

(C) 2.12

(D) 3.41

10. If Julio received \$11.68 change from \$40.00, how much did he spend?

- (A) \$28.32
- (B) \$29.22
- (C) \$29.42
- (D) \$51.58

11. Two puppies, Salt and Pepper, were part of the same litter. Salt weighed 10.4 ounces at birth and Pepper weighed 13.2 ounces. After one week, Salt weighed 14 ounces and Pepper weighed 16.1 ounces. Which puppy gained more weight in the first week? How much more?

12. Place the decimal point in the product, where it belongs:

$$5.29 \times 9.86 = 521594$$

13. Place the decimal point in the product, where it belongs:

$$16.3 \times 11.05 = 180115$$

14. A granola bar weighs 1.53 ounces. How much do 12 granola bars weigh?

15. What is the perimeter of a rectangle with a length of 12.34 feet and a width of 11.32? (Draw a picture to help you!)

16. Samuel took some math tests and his scores were:

98%, 80%, 75%, 80%, 80%, 72%, 70%, and 100%

Determine the mean, mode, median, and range of the data.

17. Samantha has to read a book that is 525 pages long. She has 21 days to read the book. How many pages will she need to read each day to finish on time?

- A. 21
- B. 25
- C. 546
- D. 11,025

18. Mrs. Lovell's class is baking cookies. They need $3\frac{3}{5}$ pounds of sugar and $5\frac{1}{3}$ pounds of flour. When they mix the sugar and flour together, how many pounds will they have altogether?

19. Jennie was assigned this problem:
$$\begin{array}{r} 146 \\ \times 25 \\ \hline \end{array}$$

She worked out the problem in this way:

$146 \times 2 = 292$, and $146 \times 5 = 730$. Then she added $292 + 730$. She knew that her answer was wrong because her answer seemed too small. What should she have done differently?

- A. She should have multiplied 146×50 instead of 146×50 .
- B. She should have multiplied 146×20 instead of 146×2 .
- C. She should have multiplied 146×200 instead of 146×2 .
- D. She should have multiplied 140×2 instead of 146×2 .

20. Three classes of 25 students collected 8 cans of soup from each student. The cans were then to be divided between 4 charities. How many cans of soup went to each charity?

- A. 50
- B. 108
- C. 150
- D. 800

21. The 5th grade is going on a trip to the state park. There are 1,012 students going. Each bus can hold 44 students. How many busses will they need?

(Do not use a calculator.)

- A. 23
- B. 26
- C. 50
- D. 968

22. Use a factor tree to find the prime factorization of the composite number 50.

23. Nancy ate $\frac{1}{3}$ of a pizza and Gabe ate $\frac{1}{4}$ of the pizza. How much of the whole pizza is left?

- A. $\frac{7}{12}$
- B. $\frac{5}{12}$
- C. $\frac{2}{7}$
- D. $\frac{6}{7}$

24. Which is true?

- A. 0.07 is ten times greater than 0.7
- B. 0.070 is ten times greater than 0.007
- C. 0.070 is equal to 0.0070
- D. 0.07 is seven times greater than 0.70

*This packet needs to be **COMPLETELY** done and ready to turn into your math teacher the first week of school! Don't forget to show all your work.*

Division Facts (A)

Find each quotient.

$6 \div 1 =$

$1 \div 1 =$

$21 \div 3 =$

$4 \div 4 =$

$70 \div 10 =$

$12 \div 4 =$

$3 \div 3 =$

$60 \div 5 =$

$50 \div 5 =$

$36 \div 9 =$

$80 \div 8 =$

$3 \div 1 =$

$12 \div 1 =$

$36 \div 3 =$

$32 \div 4 =$

$36 \div 4 =$

$11 \div 1 =$

$2 \div 1 =$

$120 \div 12 =$

$70 \div 7 =$

$48 \div 8 =$

$0 \div 11 =$

$90 \div 10 =$

$0 \div 12 =$

$21 \div 7 =$

$33 \div 3 =$

$35 \div 5 =$

$0 \div 5 =$

$144 \div 12 =$

$49 \div 7 =$

$4 \div 1 =$

$10 \div 2 =$

$40 \div 8 =$

$8 \div 1 =$

$88 \div 8 =$

$77 \div 7 =$

$0 \div 9 =$

$40 \div 4 =$

$44 \div 4 =$

$48 \div 12 =$

$99 \div 9 =$

$55 \div 5 =$

$42 \div 6 =$

$0 \div 4 =$

$18 \div 3 =$

$12 \div 12 =$

$9 \div 3 =$

$48 \div 6 =$

$0 \div 1 =$

$28 \div 7 =$

$42 \div 7 =$

$35 \div 7 =$

$30 \div 6 =$

$24 \div 2 =$

$24 \div 6 =$

$132 \div 12 =$

$55 \div 11 =$

$100 \div 10 =$

$77 \div 11 =$

$63 \div 7 =$

$5 \div 1 =$

$0 \div 8 =$

$99 \div 11 =$

$66 \div 6 =$

$20 \div 5 =$

$28 \div 4 =$

$0 \div 10 =$

$72 \div 12 =$

$9 \div 1 =$

$2 \div 2 =$

$27 \div 3 =$

$15 \div 3 =$

$120 \div 10 =$

$9 \div 9 =$

$20 \div 4 =$

$54 \div 9 =$

$14 \div 7 =$

$7 \div 1 =$

$88 \div 11 =$

$60 \div 12 =$

$10 \div 5 =$

$72 \div 6 =$

$44 \div 11 =$

$8 \div 8 =$

$84 \div 7 =$

$48 \div 4 =$

$36 \div 6 =$

$0 \div 7 =$

$54 \div 6 =$

$24 \div 8 =$

$10 \div 1 =$

$8 \div 4 =$

$7 \div 7 =$

$12 \div 6 =$

$30 \div 3 =$

$20 \div 10 =$

$22 \div 11 =$

$56 \div 8 =$

$5 \div 5 =$

$56 \div 7 =$

