FOR STUDENTS ENTERING: 7th Grade

St. Marys Catholic Middle School

June 2021

SMCMS Parents and Students;

Attached you will find a packet of math problems that should be completed during the summer months. WE ARE ASKING THE STUDENTS TO COMPLETE ALL OF THE PROBLEMS IN THIS PACKET All of the problems are math concepts that were covered during the 2020-21 school year in your/your child's math class. The purpose of this summer assignment is to help you retain the information that was learned over the past 9 months. All math classes are stepping stones for the next class so it is important that knowledge is retained from year to year.

The packet should be completed prior to the start of the 2021-22 school year. The packet information may be taken for a grade in the next school year based on whether it has been completed. In order to help students, math teachers from SMCMS and ECCHS will be available during July and August to help students with any difficulty they encounter. The schedule of dates and times will be available on www.eccss.org later in June.

Please contact Mr. Schneider at schneiderj@eccss.org or 834-2665 x214 if you have any questions.

***PLEASE COMPLETE ALL PROBLEMS. BE SURE TO SHOW YOUR WORK!***

Name: _____

7th Grade

In the box provided, show all your work for each problem.

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| 1. Find the sum.<br>$32.48 + 3.7$ | 2. Find the difference.<br>$61.82 - 33.54$ |
| 3. Find the product.<br>$6.1 \times 4.3$ | 4. Find the quotient.<br>$2.24 \div 0.4$ |
| 5. What is the reciprocal of $2\frac{3}{5}$?<br>a. $\frac{5}{13}$<br>b. $\frac{13}{5}$<br>c. $\frac{10}{5}$<br>d. $\frac{7}{3}$ | 6. Add the fractions.<br>$\frac{1}{6} + \frac{4}{9}$ |
| 7. Subtract the mixed numbers.<br>$1\frac{1}{4} - \frac{1}{8}$ | 8. Multiply.<br>$2\frac{1}{4} \, x \, \frac{2}{5}$ |
| 9. Solve.<br>$\frac{3}{8} = \frac{15}{x}$<br>a. 18<br>b. 9<br>c. 40<br>d. 24 | 10. Solve.<br>$\frac{300}{x} = \frac{180}{6}$ |

| | |
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| 11. Order the numbers from least to greatest.<br>8, 0, -8, -3, 5 | 12. Solve<br>-3 + 17 |
| 13. Solve.<br>-10 – (-2) | 14. Solve<br>-11 x (7) |
| 15. Solve.<br>-42 ÷ (-6) | 16. \|23\| is equivalent to?<br>a. 23<br>b. -23<br>c. $\frac{1}{23}$<br>d. $-\frac{1}{23}$ |
| 17. Which is another way to write $3^4$ using repeated multiplication?<br>a. 3 x 4<br>b. 3 x 3 x 3 x 3<br>c. 4 x 4 x 4<br>d. 3 x 4 x 3 x 4 | 18. Which statement is true?<br>a. $7^3 = 21$<br>b. $2 \times 2 \times 2 = 3^2$<br>c. $4^3 = 67$<br>d. $6^3 = 36 \times 6$ |
| 19. Solve.<br>x – 25 = 44 | 20. Solve.<br>z + 15 = 55 |
| 21. Find the least common multiple (LCM) of 4 and 7. | 22. Find the greatest common factor (GCF) of 24 and 32. |

| | |
|---|---|
| 23. Which expression represents the prime factorization for 18?<br>a. 6 x 3<br>b. 9 x 2<br>c. 3 x 3 x 2<br>d. 2 x 2 x 3 | 24. Write the prime factorization of 40. |
| 25. Which property is shown?<br>3(7 + 15) = (3 x 7) + (3 x 15)<br>a. Identity Property of Multiplication<br>b. Associative Property of Multiplication<br>c. Distributive Property | 26. Simplify the expression.<br>3 + 5 x 6 – 12 |
| 27. Simplify the expression.<br>$2 \times 6 \div 2 + 2^3$ | 28. John as $125.36 in his bank account. In July he withdrew $45.25 and in August he deposited $21.78. How much money does John now have in his account? |
| 29. Three students solved the following equation; 6x – 2 = 10. Robert's solution was x = 30, John's was x = 2 and Michael's was x = -2. Who is correct? Show your work. | 30. Write an equation to represent the expression "ten less than a number is 42." |
| 31. The cafeteria sells bagels for $0.95 each. If Chris buys 6 bagels how much money does he spend? | 32. If one dozen donuts costs $10.20, how much does one donut cost? |

33. Cindy needs $2\frac{1}{4}$ cups of sugar to make a cake. How much sugar will she need to make 6 cakes?

34. Tom has a piece of ribbon 16 ft. long. If he used $\frac{3}{8}$ of it to wrap a package, how much does he have left?

35. Maria answered $\frac{3}{5}$ of the questions on her social studies test correctly. What is another way of writing $\frac{3}{5}$?

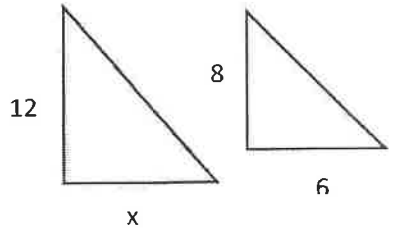
a. 0.6
b. 0.15
c. 0.4
d. 0.53

36. Maria answered $\frac{3}{5}$ of the questions on her social studies test correctly. What percent did Maria answer correctly?

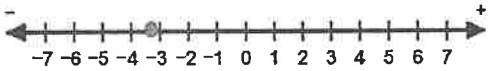
37. John's team won 18 out of 20 games this season. What percent of the games did he win?

38. Susan can type 54 words in one minute. At this rate how long will it take her to type 297 words?

39. What value for x would make the triangles similar?



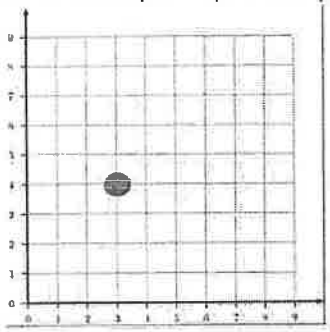

40. Match the point on the number line to its value.




a. -2.9
b. -2.5
c. -3.1
d. -0.9

41. Write an integer to express 19° below zero.

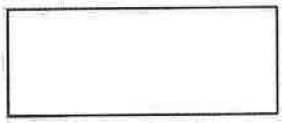
42. What ordered pair represents point A?



43. Find the perimeter of the rectangle. Use P = 2l + 2w. Include the correct unit of measurement.

38 in.

20 in.



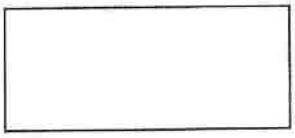
44. Find the area of the triangle. Use A = $\frac{1}{2}bh$. Include the correct unit of measurement.

b = 15 cm  h = 6 cm

45. Fine the area of the rectangle. Use A = l x w. Include the correct unit of measurement.

8.2 cm

6 cm

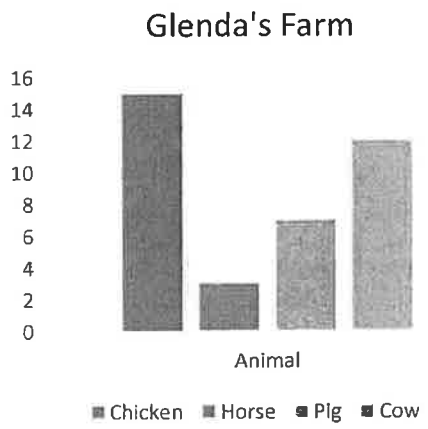


46. Jonathon as $35.00. He buys four comic books of that are $4.50 each. How much money does Johnathan have left?

47. The numbers below represent the scores of seven students on their last spelling test.
100, 90, 90, 85, 80, 88, 70
What is the range of the scores?

48. Conrad told his friend that he received $5^3$ dollars for his birthday. How much money did Conrad have?

49. The graph below shows the number of animals on Glenda's farm.




How many more pigs does she have than horses?

50. Write an inequality to represent x is less than 15.