
ST. GREGORY THE GREAT CATHOLIC SCHOOL

SUMMER 2024

READING AND MATH ENRICHMENT



Students Entering Seventh Grade August 2024

Dear St. Gregory Parents,

Happy summer! While you are enjoying your summer, please encourage your child to read as much as possible. Reading is one of the most important skills which can impact your child's academic success and confidence!

The following pages have information regarding the math and reading activities our seventh grade teachers would like your child to complete during the summer. Please send the completed activities with your child on the second day of school.

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Happy summer! While you are enjoying your summer, please encourage your child to read as much as possible. Reading is one of the most important skills which can impact your child's academic success and confidence! The following pages have information regarding the math and reading activities our seventh grade teachers would like your child to complete during the summer. Please send the completed activities with your child on the second day of school.

Seventh Grade Summer Reading

- Incoming Seventh grade students will read *The Princess Bride* by William Goldman.
- Follow the directions and complete the assignments given.
- Please plan accordingly when reading because you will be required to take an AR quiz on this novel, during the first week of school, which will count towards your first quarter goal. The teacher will go over the novel during the first week of school and quizzes will not be deleted.
- In addition to the mandatory book, students will read at least two more books of their choosing. At least one of the books needs to be nonfiction.



Seventh Grade Math Readiness

- Included in this packet is a math readiness packet. Please print the packet and complete all pages. All work and steps are to be shown for each problem or the packet will be considered incomplete.
- The packet will be due to your child's teacher on the second day of school. • The packet has been paced for you so that students have a break during the summer yet also review skills that they learned during sixth grade and are ready to learn new skills during the new school year.
 - Week of July 8 - Addition and Subtraction of Fractions and Mixed Numbers
 - Week of July 15 - Multiplication and Division of Fractions and Mixed Numbers
 - Week of July 22 - Operations with Decimals
 - Week of July 29 - Geometry
 - Week of August 5 - Solving One-Step Equations

Incoming 7th Grade Summer Reading

Incoming 7th graders are required to read one (1) novel and are encouraged to read more.

Mandatory: *The Princess Bride* (ISBN-9780156035217)

Please complete the story reflection for *The Princess Bride* and turn into Ms. Howley on Thursday, August 15, 2024.

Students will take an AR test on *The Princess Bride* upon returning to school. Students do not have to take an AR test on the other two novels read. Please note that NO AR quizzes will be deleted. Please be prepared and plan accordingly.

***The Princess Bride* Novel Reflection - You may type your responses on a google document, print it, and turn in the hard copy. Your one pager must be completed on standard white printing paper.**

Novel: *The Princess Bride* **Author:** William Goldman

1. Create a one pager including title, author, main characters, and setting. Make it colorful and be creative. All images should relate to the story.
2. Who was your favorite main character in this story? What are the actions and personality traits of the character that you found to be most likable or appealing?
3. What is the greatest conflict or hardship experienced by your favorite main character? How did their hardship affect your emotions while reading the novel? Did you feel anxiousness, sadness, compassion or empathy for the character? Describe the emotion you experienced during this point of the story and explain why you felt this way.
4. Summarize the climax of the story. How does the climax affect your favorite main character? Does the climax create greater happiness for them? Does it allow him to accomplish his goal(s) within the story? Please explain.
5. If you were your favorite character, what would you have done differently to avoid encountering his/her problem? Think about a decision that this character made at some point in the story which you did not quite agree with. How would you have made this decision differently? Explain why.

I read *The Princess Bride* by William Goldman. I know I will be taking the AR quiz on *The Princess Bride* upon returning to school.

Student Signature Parent Signature

Addition and Subtraction of Fractions and Mixed Numbers

Addition and Subtracting Fractions:

- 1) Rewrite the fractions with a common denominator
- 2) Add or subtract the numerators
- 3) Simplify the fraction

$$\begin{array}{r} \frac{1}{3} + \frac{1}{6} \\ \frac{1 \times 2}{3 \times 2} \quad \frac{2}{6} \\ + \frac{1 \times 1}{6 \times 1} \quad \frac{1}{6} \\ \hline \frac{3+1}{6+3} \quad \frac{1}{2} \end{array}$$

Addition and Subtracting Mixed Numbers:

- 1) Rewrite the fractions with a common denominator
- 2) Rename, if necessary
- 3) Add or subtract the fractions. Add or subtract the whole numbers
- 4) Simplify if necessary

$$\begin{array}{r} 3\frac{1}{4} - 1\frac{1}{3} \\ 3\frac{1}{4} = 2\frac{3}{4} = 2\frac{9}{12} \\ - 1\frac{1}{3} = 1\frac{4}{12} \\ \hline 1\frac{11}{12} \end{array}$$

Find the sum. Write your answer in simplest form.

1. $\frac{1}{4} + \frac{1}{2}$

2. $\frac{2}{5} + \frac{1}{3}$

3. $\frac{7}{15} + \frac{3}{10}$

4. $\frac{11}{28} + \frac{4}{7}$

5. $\frac{3}{4} + \frac{1}{12}$

6. $\frac{9}{10} + \frac{13}{20}$

7. $4\frac{15}{16} + 7\frac{3}{4}$

8. $2\frac{16}{25} + 3\frac{18}{20}$

9. $3\frac{2}{5} + 9\frac{1}{10}$

10. $6\frac{1}{42} + 4\frac{5}{6}$

11. $18\frac{7}{9} + 16$

12. $4\frac{7}{8} + \frac{1}{3}$

Find the difference. Write your answer in simplest form.

13. $\frac{7}{8} - \frac{1}{4}$

14. $\frac{13}{15} - \frac{1}{3}$

15. $\frac{7}{9} - \frac{2}{6}$

16. $\frac{21}{24} - \frac{3}{8}$

17. $\frac{3}{14} - \frac{1}{7}$

18. $\frac{9}{10} - \frac{1}{2}$

19. $9\frac{1}{6} - 4\frac{1}{12}$

20. $12\frac{18}{25} - 8\frac{4}{5}$

21. $5\frac{8}{9} - 3\frac{2}{3}$

22. $8\frac{12}{16} - 7\frac{31}{32}$

23. $10\frac{3}{4} - 6\frac{4}{5}$

24. $13\frac{7}{8} - \frac{10}{12}$

Multiplication and Division of Fractions and Mixed Numbers

Multiplying Fractions and Mixed Numbers:

- 1) Convert mixed numbers to improper fractions
- 2) Cross simplify if possible
- 3) Multiply the 2 numerators and then multiply the 2 denominators
- 4) Simplify if necessary

$$2\frac{1}{4} \cdot \frac{1}{3}$$

$$2\frac{1}{4} = \frac{9}{4}$$

$$3\frac{9}{4} \cdot \frac{1}{3} = \frac{3}{4}$$

Dividing Fractions and Mixed Numbers:

- 1) Convert mixed numbers to improper fractions
- 2) "Same, Change, Flip" (keep first fraction the same, change division to multiplication, flip second fraction to its reciprocal)
- 3) Cross simplify if possible and then multiply
- 4) Simplify if necessary

$$\frac{3}{7} \div \frac{9}{10}$$

$$1\frac{3}{7} \cdot \frac{10}{9} = \frac{10}{21}$$

Find the product. Write your answer in simplest form.

25. $\frac{1}{8} \cdot \frac{1}{7}$

26. $\frac{2}{9} \cdot \frac{12}{14}$

27. $\frac{7}{12} \cdot \frac{8}{14}$

28. $\frac{9}{24} \cdot \frac{16}{81}$

29. $\frac{3}{14} \cdot \frac{21}{33}$

30. $\frac{1}{2} \cdot \frac{9}{13}$

31. $2\frac{1}{6} \cdot \frac{3}{5}$

32. $8\frac{4}{5} \cdot 1\frac{5}{11}$

33. $2\frac{1}{2} \cdot \frac{2}{5}$

34. $9\frac{2}{3} \cdot 6$

35. $13\frac{1}{3} \cdot 2\frac{1}{10}$

36. $7 \cdot \frac{1}{3}$

Find the quotient. Write your answer in simplest form.

37. $\frac{5}{6} \div \frac{1}{4}$

38. $\frac{1}{2} \div \frac{1}{4}$

39. $\frac{3}{4} \div \frac{9}{12}$

40. $\frac{21}{35} \div \frac{7}{25}$

41. $\frac{6}{7} \div 3$

42. $\frac{2}{11} \div \frac{1}{33}$

43. $1\frac{1}{4} \div 2\frac{1}{3}$

44. $5\frac{3}{6} \div 3$

45. $10\frac{1}{4} \div \frac{2}{5}$

46. $3\frac{2}{3} \div 1\frac{1}{7}$

47. $4\frac{3}{8} \div \frac{9}{10}$

48. $8 \div \frac{3}{4}$

Operations with Decimals

Adding and Subtracting Decimals:

- 1) Line up decimal points
- 2) Bring the decimal down
- 3) Add or subtract as if numbers are whole numbers

$$5.2 + 10.03$$

$$\begin{array}{r} 5.2 \\ + 10.03 \\ \hline 15.23 \end{array}$$

Multiplying Decimals:

- 1) Ignore the decimal points
- 2) Multiply as if numbers are whole numbers
- 3) Count the number of decimal places in the problem and move the decimal point in answer that many places

$$1.03 \times 2.8$$

$$\begin{array}{r} 1.03 \\ \times 2.8 \\ \hline 824 \\ 2060 \\ \hline 2884 \end{array}$$

Dividing Decimals:

- 1) If there is a decimal in the divisor, move it to the end of the number and move the decimal in the dividend the same number of places
- 2) Bring decimal point in dividend straight up.
- 3) Divide. Add zeros to dividend and bring down if necessary.

$$6.4 \div 1.2$$

$$\begin{array}{r} 5.3 \\ 1.2 \overline{) 6.40} \\ \underline{60} \\ 40 \\ \underline{36} \\ 4 \end{array}$$

Find the sum or difference.

49. $6.2 + 3.4$

50. $8.04 - 6.8$

51. $12.4 + 0.899$

52. $12.9 - 2.043$

53. $163.29 + 13.987$

54. $13 - 6.7$

55. $3.91 + 1.93$

56. $34.2 - 29.027$

Find the product.

57. 9.2×3.1

58. $(14.1)(2.7)$

59. 91×4.5

60. $(82.04)(1.2)$

61. $(1.1)(6.78)$

62. 45×0.1

63. 0.010×13.9

64. $(2.34)(5.6)$

Find the quotient.

65. $2 \overline{)8.4}$

66. $13 \overline{)1.56}$

67. $2 \overline{)7.45}$

68. $8 \overline{)9}$

69. $3.4 \overline{)68}$

70. $0.2 \overline{)9.4}$

71. $0.15 \overline{)0.045}$

72. $0.3 \overline{)4}$

Geometry

Area Formulas: (remember area = the space inside a figure)

Area of Rectangle = length \times width

Area of Triangle = $\frac{1}{2}$ base \times height

Area of Circle = $\pi \cdot \text{radius}^2$

Area of Parallelogram = base \times height

Perimeter: (remember perimeter = the distance around a figure)

Perimeter of any polygon: add up all the sides

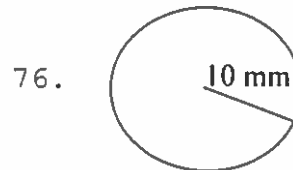
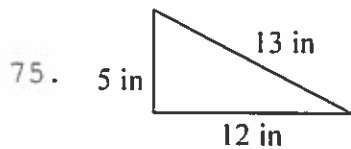
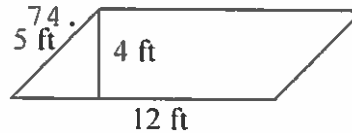
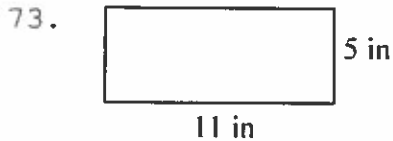
Circumference of Circle = $2 \cdot \pi \cdot \text{radius}$

Volume: (remember volume = the capacity of a 3D figure)

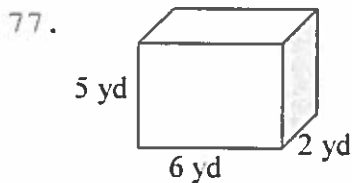
Volume of Rectangular Prism = length \times width \times height

$\pi \cdot \text{diameter}$

Find the area and perimeter (or circumference). Use 3.14 for pi:



Find the volume:



Solve the word problem:

78. Danny is installing a fence around his rectangular yard. His yard is 20 feet long by 45 feet wide. If the fencing he picked out costs \$25 per foot, how much money will Danny spend on the fence?
79. Tameka wants to put a carpet in her rectangular bedroom. Her room is 22 feet long by 18 feet wide. How much carpeting will Tameka need?
80. Don wants to bring some sand home from his vacation at the beach. He has a box that is 3 inches wide, 4 inches long and 2 inches tall. How much sand can he fit in the box?

Solving One-step Equations

Addition Equations:

Subtract the number on the same side of the equal sign as the variable from each side of the equation

$$x + 3 = 9$$

$$\begin{array}{r} x + 3 = 9 \\ -3 \quad -3 \\ \hline \end{array}$$

$$x = 6$$

Subtraction Equations:

Add the number on the same side of the equal sign as the variable to each side of the equation

$$14 = x - 7$$

$$\begin{array}{r} 14 = x - 7 \\ +7 \quad +7 \\ \hline \end{array}$$

$$21 = x$$

Multiplication Equations:

Divide each side of the equation by the number on the same side of the equal sign as the variable

$$5m = 105$$

$$\begin{array}{r} 5m = 105 \\ \hline 5 \quad 5 \end{array}$$

$$m = 21$$

Division Equations:

Multiply each side of the equation by the number on the same side of the equal sign as the variable

$$\frac{y}{13} = 5$$

$$13 \times \frac{y}{13} = 5 \times 13$$

$$y = 65$$

Solve for the given variable:

81. $x + 18 = 32$

82. $18f = 720$

83. $h - 56 = 57$

84. $\frac{b}{6} = 12$

85. $12 = r - 76$

86. $33 + d = 65$

87. $14m = 42$

88. $10c = 5$

89. $38 = 19j$

90. $w + 65 = 100$

91. $r - 7 = 9$

92. $x + 12 = 9$

93. $14 + x = 18$

94. $\frac{p}{22} = 7$

95. $47 = x - 5$

96. $k + 16 = 76$

97. $2 = 6m$

98. $t - 8 = 14$

99. $\frac{h}{19} = 11$

100. $47 = 18 + b$