Summer Academic Requirements 2024

For Students entering 8th Grade

Required Summer Reading:

- Required novel: *Dr. Jekyll & Mr. Hyde* by Robert Stevenson. Students must read the required book selection and complete the guided reading questions. Students should be prepared to discuss and complete further activities at the start of the school year. The guided reading questions will be turned in on the first day of school for a grade.
- Required 2nd novel: **Your Choice** between: *The Hobbit* by J. R. R. Tolkien **or** *Theodore Boone: The Accused* by John Grisham. Students must complete the Book Report Form for this book.
- Students are encouraged to read a total of **3** chapter books (including the ones above) throughout the summer.

  Enclosures:
  - Required Math Summer Worksheets
  - Guided Reading Questions for *Dr. Jekyll & Mr. Hyde*
  - Book Report Form for *The Hobbit* or *Theodore Boone: The Accused*

Required Summer Math:

- Math worksheets (attached) to be turned in on the first day of school for a grade.

Suggested On-line Exercises:
- www.khanacademy.org – Create a parent account. This is free of charge. You can choose your child's grade level and select appropriate skills in both Math and Language Arts. (also available as an app)
- www.duolingo.com – Good for practicing Spanish, especially if parent creates an account. (also available as an app)
- **App:** Reading Comprehension Prep by Peekaboo Studios LLC

#PreventSummerLearningLoss

Middle School Summer Reading:
Book Report Form
(answers may also be typed)

Your Name:_____ **Grade:** _____

Book Title: _____

Number of Pages: _____ **Book Author:**_____

Why do you think the author chose this particular title for the book? Is it significant? What does it mean?

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Brief Plot Summary: What is the book about? Summarize the plot of the book in eight to ten complete sentences.

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Favorite Scene: Describe with details the setting of your favorite scene in the book. Be sure to include where and when this scene is taking place. Write in complete sentences.

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Interesting Character. Pick the character you think is the most interesting. What attributes (characteristics) does this character possess that make that character especially interesting to you? Name at least three traits and give specific examples from the story of the character displaying each trait. Write in complete sentences.

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Conflict and Resolution. Describe the major problem in the story which the protagonist (central character) must overcome and describe how the problem was solved. Be specific. Write in complete sentences.

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What is one thing you would change about the story? Would you recommend this book? Why or why not?

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Completed Seventh Grade Math–Summer Assignment

This is a review of some of the concepts that we have learned this year.
All work must be completed on NOTEBOOK PAPER in PENCIL. Staple your work neatly in order.
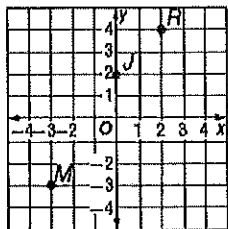All problems must be numbered, as on the review.
All problems must be worked neatly, and all work must be shown.
All problems must be worked, as modeled in class. Just writing the answers will not be accepted.
Staple your work neatly in order and turn it on the first day of school.

1. Evaluate $|-6|$.

Use the graph to name the ordered pair for each point.

2. M

3. J

Add, subtract, multiply, or divide.

4. $10 + (-8)$

5. $-8(-4)$

6. $24 \div (-6)$

7. $(-4)2$

Evaluate each expression if $m = -3$, $n = 8$, and $p = -1$.

8. np

9. $\dfrac{-18}{m}$

10. Write $2\dfrac{4}{9}$ as a decimal.

11. Write 0.375 as a fraction in simplest form.

12. Find the LCD for $\dfrac{11}{15}$ and $\dfrac{5}{6}$.

Replace each to make a true sentence.

13. $\dfrac{15}{28} \bigcirc \dfrac{5}{9}$

Add, subtract, multiply, or divide. Write in simplest form.

14. $\dfrac{2}{21} \cdot \dfrac{7}{5}$

Divide. Write in simplest form.

15. $\dfrac{3}{4} \div 4\dfrac{1}{4}$

Add, subtract, multiply, or divide. Simplify any fractions.

16. $-3 + (-6)$

17. $-8 - (-90)$

18. $100 - (-32)$

19. $-16 + 25$

20. $-45 - 18$

21. $|-7| - |42|$

22. $|-27| - |-33|$

23. $4(-8)$

24. $-9(-14)$

25. $\dfrac{-36}{-9}$

26. $\dfrac{336}{-3}$

27. $-4(-6)(-3)$

28. $\dfrac{-5(-6)}{-2}$

29. $\dfrac{6(-3) + 8}{-2}$

30. $\dfrac{-3}{4} - \dfrac{5}{6}$

31. $\dfrac{-3}{10} - \left(\dfrac{-1}{4}\right)$

32. $\dfrac{-3}{4}\left(\dfrac{-6}{5}\right)$

33. $\dfrac{-12}{25} \cdot \left(\dfrac{20}{21}\right)$

34. $-3\dfrac{2}{5} \div 2\dfrac{3}{10}$

Order of Operations- Solve using GEMDAS.
Show one change per step.

35. $6(-4) + 2(9)$

36. $20 - 3(4^2)$

37. $\dfrac{3^4 - 4^2}{-11 + 6}$

38. $8 \cdot (5 - 2^3) - 28 \div (-4)$

Evaluate each expression with the given values.

39. $4p - 17$ if $p = -3$

40. $x^2 - 4x$ if $x = -3$

Show the two-step inequality – show what you do to each side

41. $4x + 2 = 18$

42. $4x + 5 = -15$

43. $-5x + 5 = 20$

44. $-6x - 4 = -28$

45. $\frac{2}{3}x + 8 = 12$

46. $-\frac{7}{3}x + 20 = 34$

Solve the two-step inequality. Show what you do to each side. Graph each solution.

47. $17 > -2m - 3$

48. $3x + 3 < 30$

49. $\dfrac{c}{-5} + 6 \geq 2$

50. $6 < \dfrac{x}{2} - 2$

51. $\dfrac{x - 7}{2} > -5$

52. $\dfrac{2}{5}x + 13 < 17$

Find the percent. You may make the percent as a decimal or fraction, or you may use is/of= p/100 or find %

53. What is 60% of 25?

54. What is 25% of 240?

55. What is 4% of 50?

Use the four-step process. Keep all of your work nice, neat, and organized. Write the final line of work in the answer blank. Use is/of= p/100.

56. What percent of 80 is 400?

57. 65% of what number is 650?

58. 8 is what percent of 20?

59. 85% of what number is 34?

60. 70% of what number is 63

Business Application. Round to the nearest cent if needed

61. List Price: $6.40 Discount rate: 15%. Find the discount and sale price.

62. Wholesale Price: $40 and Markup Rate: 48% .Find the MARKUP

63. **List Price: $4.50 and Discount Rate: 25%** Find the discount

64. Marked Price: $143 Sales Tax: 6.5%. Find the sales tax

65. Find the height of the parallelogram – given the area is 81.31 in^2 and the base is 4.7in. Find the area of circle with radius 8 in

66. Find the area of circle with diameter 32in

Area- USE THE FOUR – STEP PROCESS to find the missing part of the area formula. Show all the algebra steps

67. Find the length of a rectangle with width of 8.4m and area of 25.2m^2.

68. Find the width of the rectangle – given the area is 120in^2 and the length is 12in.

69. Find the length of the rectangle- given the area is 70 in^2 and the width is $1\frac{3}{4}$ in.

70. Find the height of the parallelogram – given the area is 81.31 in^2 and the base is 4.7in.

Multiply the monomials. Show the rule.

71. $-4m^3(-5m^4)$

72. $3x^5y^2 \cdot 6x^6y^7$

73. $\frac{3}{4}xy \cdot (-12x^4y^2)$

Divide Monomials. Show the rule used to simplify the exponents.

74. $\dfrac{-45x^3}{-9x^2}$

75. $\dfrac{m^{14}n^8}{m^6n^5}$

Distribute. Show the distributive step.

76. $-3x(2x - 5)$

77. $2x(x^3 - 4)$

Set up a proportion and solve.

78. The ratio of hot dogs to hamburgers sold at a baseball stadium is 8:3. If 272 hot dogs were sold, how many hamburgers were sold?

79. The ratio of empty seats to full seats in an auditorium is 3:7. If there are 203 full seats, find the total number of seats.