

POND ROAD MIDDLE SCHOOL

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"Today's Learners, Tomorrow's leaders"

Summer, 2020

Dear Parents/Guardians,

Congratulations on the completion of your child's 7th grade year! As your child prepares for the 8th grade, it is important that he/she maintains the skills necessary to be successful. The mathematics teachers have prepared a summer packet for the students to complete. This will enhance and strengthen their skills.

This packet will be checked on the first day of school and counted as a homework grade. Please complete the packet in its entirety. Please do not leave any questions blank. All work should be shown for every question.

WE STRONGLY RECOMMEND WAITING UNTIL THE LATTER PART OF THE SUMMER TO COMPLETE THIS PACKET AS THAT WILL HELP THE STUDENTS BEST REFRESH THEIR SKILLS PRIOR TO SCHOOL BEGINNING IN SEPTEMBER!!!

The packet is located on the Pond Road Middle School website. Please print out the document titled, "Incoming 8th Grade Math Packet (M) 2020".

✓ Students who will be in a pull-out math class for their 8th grade year should complete this modified packet. Tutorial videos and/or notes for each type of problem have also been provided in the document, and can be accessed by the hyperlink.

The following websites may be used for additional reinforcement and review.

www.khanacademy.org

www.coolmath.com

www.aaamath.com

www.funbrain.com

www.kidsnumbers.com

www.mathleague.com

www.mathplayground.com

Enjoy the rest of your summer break and we look forward to seeing you again in September!

Name: _____

Rising 8th Grade Summer Packet

PLEASE WRITE ALL ANSWERS ON THE LINES AT THE RIGHT.

SHOW ALL WORK FOR EVERY PROBLEM.

USAGE OF A CALCULATOR IS NOT ALLOWED.

PART 1 – DECIMALS

Adding and Subtracting Decimals

Video: <http://www.showme.com/sh/?h=IYdNTHs>

Notes: <https://drive.google.com/open?id=1A1iR45wgYhH78hAskrvYzbmFbMVnPK0h&authuser=0>

Find each sum or difference.

1) $46.2 - 34.09$

2) $9.06 - 7.2$

1. _____

2. _____

3) $8.037 + 7 + 12.4$

4) $15.65 - 8.7$

3. _____

4. _____

Multiplying Decimals

Video: <http://www.showme.com/sh/?h=3DLIJyq>

Notes: <https://drive.google.com/open?id=1En28tRDMEvcxRbKTCsl1sSoYwtfOBC8H&authuser=0>

Find each product.

5) $1.42 \cdot 7.2$

6) $(5.03)(2.8)$

5. _____

6. _____

7) $(0.006)(3.75)$

8) $(3.2)^2$

7. _____

8. _____

Dividing Decimals

Video: <http://www.showme.com/sh/?h=EpWayjg>

Notes: https://drive.google.com/open?id=1_Mt28HG_JoVwtezSbkppiVmAacYdGRHq&authuser=0

Find each quotient.

9) $346.8 \div 5.1$

10) $3968 \div 0.32$

9. _____

10. _____

11) $2814 \div 0.14$

12) $99 \div 0.09$

11. _____

12. _____

PART 2 – NUMBER SENSE

Video: <https://www.showme.com/sh/?h=VaRkOPI>

Round the following dollar amounts correctly to the nearest penny.

- | | |
|-----------------|-----------|
| 13) \$49.1748 | 13. _____ |
| 14) \$1,839.586 | 14. _____ |
| 15) \$651.398 | 15. _____ |
| 16) \$748.996 | 16. _____ |

17) Order the following numbers from least to greatest. Rewrite the numbers in order.

0.8 0.5 0.85 0.58 0.508 0.805

18) Order the following numbers from greatest to least. Rewrite the numbers in order.

-2.3 -2 -1.7 -2.1 -1 -2.9

PART 3 – ORDER OF OPERATIONS

Notes: https://drive.google.com/open?id=1exw6S0kRovOIR-leA_qLt1YdAKA1gBm8&authuser=0

- | | |
|---|-----------|
| 19) $17 - 4 \times 3$ | 19. _____ |
| 20) $\frac{18}{6} + 2^2$ | 20. _____ |
| 21) $33 - (7)(2)$ | 21. _____ |
| 22) $\frac{100 - 75 - 15}{(6)(4) - 22}$ | 22. _____ |

PART 4 – RATES, RATIOS, & PROPORTIONS

Notes: <https://drive.google.com/open?id=172BB30OsyLF-L3ikSHpSdF4XP1KfvXAS&authuser=0>

Video: <http://www.showme.com/sh/?h=0QzcOHY>

Find the unit rate.

23) work for 12 hours and earn \$140

23. _____

24) travel 900 miles in 15 hours

24. _____

Solve the following proportions. Round answer to the nearest tenth.

25) $\frac{3}{7} = \frac{11}{x}$

25. _____

26) $\frac{y}{3} = \frac{191}{20}$

26. _____

27) $\frac{5}{9} = \frac{x}{15}$

27. _____

Use a proportion to solve the following problem.

28) If Frank can read 12 books in 30 days, how many complete books can he read in 50 days?

28. _____

Use a proportion to solve the following problem.

29) If Susan can read 40 pages in 12 minutes, how many pages can she read in 50 minutes?

29. _____

30) The key on a map says 2 inches equals 7 miles. If two cities are 9 inches apart on the map, how far apart are they in real life?

30. _____

PART 5 – CENTRAL TENDENCY

Video: <https://www.showme.com/sh/?h=Vccnmi0>

Notes: <https://drive.google.com/open?id=1o49cvIzh47H9gVYPiAQGrM4g9x2KYSDQCs1pd-WYvKs&authuser=0>

Use the data set to answer the following questions. DATA SET: 100%, 75%, 83%, 94%, 62%

31) What is the MEAN of the data set?

31. _____

32) What is the MEDIAN of the data set?

32. _____

33) What is the MODE of the data set?

33. _____

34) What is the RANGE of the data set?

34. _____

PART 7 – FRACTIONS, DECIMALS & PERCENTS

Notes: <https://drive.google.com/open?id=17DpXSWPIWshv3QdHnRORQLv5BamgFV3d&authuser=0>

Notes: <https://drive.google.com/open?id=1HD9-0zvf39oRym6Job0QbrKINkek3Cca&authuser=0>

Convert to a decimal.

35) $\frac{5}{6}$

36) $\frac{3}{4}$

37) 25%

35. _____

36. _____

37. _____

Convert to a fraction.

38) 3.25

39) 30%

40) 0.125

38. _____

39. _____

40. _____

Convert to a percent.

41) 0.84

42) $\frac{2}{3}$

43) 1.5

41. _____

42. _____

43. _____

Solve.

44) 34% of 15

45) 56 is what percent of 80?

44. _____

45. _____

Solve the following problems using any method.

46) 30 students in grade 8 finished their summer packet before August 15. This was 12% of all the students. How many students are in grade 8?

46. _____

47) You go out to dinner and the bill is \$45.12. You want to leave an 18% tip. In total, how much money should you leave?

47. _____

48) A \$800 T.V. is on sale for 15% off. What is the cost of the T.V.?

48. _____

49) A car dealership buys a car for \$20,500 and marks up the price by 12%. How much does the dealership sell the car for?

49. _____

50) The cost of a calculator is \$31. If the tax rate is 7%, what is the final cost of the calculator?

50. _____

PART 7 – INTEGERS

Video: <http://www.showme.com/sh/?h=g6dHohe>

Notes: https://drive.google.com/open?id=1X1a9rsP_FbHunE95xoP4X5FWDcr617dg&authuser=0

Simplify the following using the order of operations. Show all work.

51) $12 - 32$

52) $45 + -13$

51. _____

52. _____

53) $-60 - 20$

54) $24 + 3^2 - 2 - 2$

53. _____

54. _____

55) $8 - 3 + 9 - 2$

56) $15 + 2 - |-7|$

55. _____

56. _____

Simplify.

57) $-2 - 8 - (-3)$

58) $-6 + 3 - 12$

57. _____

58. _____

59) $-5 - (-2)$

60) $|9 - 20|$

59. _____

60. _____