Neshaminy School District

Curriculum, Assessment & Instruction Department

Mathematics

Summer Preparation Packet 7th Grade Math (Course 2)

Dear Parent/Guardians,

This packet is meant to provide your child with a review of the material your child learned in their current math course. Your child is expected to return this completed packet to his/her math teacher on the first day of school. Please have your child pace themselves; it is to no ones benefit to wait until the last day of summer to start the packet. As your child completes the packet, have them do the following:

- Show all work, on a separate sheet if needed.
- Do not use a calculator.

Name: _____

Date: _____

Algebra 1 Part 1 R
Review Packet
Revised: July 2012 MT

1. Find the sum: $3.4 + 6.005$

[1] _____

2. Find the difference: $27.77 - 18.09$

[2] _____

3. Find the product: 23.7×13.67

[3] _____

4. Find the quotient: $9.744 \div 0.87$

[4] _____

Find the greatest common factor of the pair of numbers.

5. 8, 28

[5] _____

6. 36, 42

[6] _____

7. 54, 81

[7] _____

Find the greatest common factor of the pair of numbers.

8. 50, 150

[8] _____

Find the least common multiple of the pair of numbers.

9. 6, 7

[9] _____

10. 10, 15

[10] _____

11. 24, 38

[11] _____

12. 12, 36

[12] _____

Find the least common denominator of the pair of fractions.

13. $\frac{1}{2}, \frac{7}{10}$

[13] _____

14. $\frac{5}{8}, \frac{6}{7}$

[14] _____

15. $\frac{5}{9}, \frac{7}{12}$

[15] _____

16. $\frac{11}{20}, \frac{15}{32}$

[16] _____

Find the reciprocal of the number.

17. 12

[17] _____

Find the reciprocal of the number.

18. $\frac{3}{16}$

[18] _____

19. $\frac{9}{5}$

[19] _____

20. $2\frac{1}{3}$

[20] _____

21. Subtract $\frac{3}{4}-\frac{1}{4}$. Write the answer in simplest form.

[21] _____

22. Add $\frac{1}{2}+\frac{1}{8}$. Write the answer in simplest form.

[22] _____

23. Add $\frac{6}{7}+\frac{5}{9}$. Write the answer in simplest form.

[23] _____

24. Subtract $11\frac{1}{4}-2\frac{5}{8}$. Write the answer in simplest form.

[24] _____

25. Multiply $\frac{1}{2}\times\frac{6}{11}$. Write the answer in simplest form.

[25] _____

26. Divide $\frac{7}{11}\div\frac{3}{5}$. Write the answer in simplest form.

[26] _____

27. Divide $\frac{4}{15}\div\frac{8}{3}$. Write the answer in simplest form.

[27] _____

28. Multiply $4\frac{1}{8}\times\frac{2}{3}$. Write the answer in simplest form.

[28] _____

Write the percent as a decimal and as a fraction in simplest form.

29. 7%

[29] _____

30. 26%

[30] _____

31. 48%

[31] _____

32. 84%

[32] _____

Write the decimal as a percent and as a fraction in simplest form.

33. 0.08

[33] _____

34. 0.15

[34] _____

Write the decimal as a percent and as a fraction in simplest form.

35. 0.47

[35] _____

36. 0.027

[36] _____

Write the fraction as a decimal and as a percent.

37. $\frac{9}{10}$

[37] _____

38. $\frac{4}{5}$

[38] _____

39. $\frac{7}{8}$

[39] _____

Write the fraction as a decimal and as a percent.

40. $\frac{11}{20}$

[40] _____

Compare the two numbers. Write the answer using <, >, or =.

41. 138 and 198

[41] _____

42. 781 and 718

[42] _____

43. 8.4 and 8.2

[43] _____

44. -7.88 and -4.88

[44] _____

45. $\frac{5}{12}$ and $\frac{3}{4}$

[45] _____

Compare the two numbers. Write the answer using <, >, or =.

46. $\frac{3}{6}$ and $\frac{4}{8}$

[46] _____

47. $\frac{5}{3}$ and $1\frac{1}{2}$

[47] _____

48. $16\frac{2}{3}$ and $16\frac{7}{8}$

[48] _____

Write the numbers in order from least to greatest.

49. 0.19, 0.9, 0.49, 0.4

[49] _____

50. $-6.5,\ -5.4,\ 6.4,\ -6$

[50] _____

Write the numbers in order from least to greatest.

51. $\frac{5}{8}, \frac{4}{7}, \frac{3}{5}, \frac{1}{2}$

[51] _____

52. $\frac{9}{7}, \frac{6}{4}, \frac{5}{4}, \frac{6}{13}$

[52] _____

53. $1\frac{5}{9}, 1\frac{3}{4}, \frac{13}{11}, \frac{7}{5}$

[53] _____

54. $-16\frac{1}{4}, -15\frac{1}{9}, -16\frac{1}{8}, -15\frac{2}{3}$

[54] _____

Find the perimeter.

55. a triangle with sides of length 18 feet, 27 feet, and 32 feet

[55] _____

Find the perimeter.

56. a square with sides of length 4.7 centimeters

[56] _____

Find the area.

57. a square with sides of length 13 yards

[57] _____

58. a rectangle with length 7.7 kilometers and width 4.5 kilometers

[58] _____

Find the volume.

59. a cube with sides of length 19 meters

[59] _____

60. a rectangular prism with length 5.9 inches, width 8.6 inches, and height 1.2 inches

[60] _____

61. The list below shows the distribution of gold medals for the 1998 Winter Olympics. Choose an appropriate graph to display the data.

Germany 12	Norway 10	Russia 9	Canada 6
United States 6	Japan 5	Netherlands 5	Austria 3
South Korea 3	Finland 2	France 2	Italy 2
Switzerland 2	Bulgaria 1	Czech Republic 1	

[61] _____

Find the mean, median, and mode(s) of the data set.

62. 1, 3, 3, 3, 4, 5, 6, 7, 7, 9

[62] _____

63. 17, 22, 36, 47, 51, 58, 65, 80, 85, 89

[63] _____

64. 5, 23, 12, 5, 9, 18, 12, 4, 10, 21

[64] _____

ANSWER KEY

[1] 9.405

[2] 9.68

[3] 323.979

[4] 11.2

[5] 4

[6] 6

[7] 27

[8] 50

[9] 42

[10] 30

[11] 456

[12] 36

[13] 10

[14] 56

[15] 36

[16] 160

[17] $\frac{1}{12}$

[18] $\frac{16}{3}$

[19] $\frac{5}{9}$

[20] $\frac{3}{7}$

[16] 160

[17] $\frac{1}{12}$

[18] $\frac{16}{3}$

[19] $\frac{5}{9}$

[20] $\frac{3}{7}$

[21] $\frac{1}{2}$

[22] $\frac{5}{8}$

[23] $\frac{89}{63}$

[24] $\frac{69}{8}$

[25] $\frac{3}{11}$

[26] $\frac{35}{33}$

[27] $\frac{1}{10}$

[28] $\frac{11}{4}$

[29] $0.07, \frac{7}{100}$

[30] $0.26, \frac{13}{50}$

[31] $0.48, \frac{12}{25}$

[32] $0.84, \frac{21}{25}$

[33] $8\%, \frac{2}{25}$

[34] $15\%, \frac{3}{20}$

[35] $47\%, \frac{47}{100}$

[36] $2.7\%, \frac{27}{1000}$

[37] 0.9, 90%

[38] 0.8, 80%

[39] 0.875, 87.5%

[40] 0.55, 55%

[41] $138 < 198$

[42] $781 > 718$

[43] $8.4 > 8.2$

[44] $-7.88 < -4.88$

[45] $\frac{5}{12} < \frac{3}{4}$

[46] $\frac{3}{6} = \frac{4}{8}$

[47] $\frac{5}{3} > 1\frac{1}{2}$

[48] $16\frac{2}{3} < 16\frac{7}{8}$

[49] 0.19, 0.4, 0.49, 0.9

[50] $-6.5,\ -6,\ -5.4,\ 6.4$

[51] $\frac{1}{2}, \frac{4}{7}, \frac{3}{5}, \frac{5}{8}$

[52] $\frac{6}{13}, \frac{5}{4}, \frac{9}{7}, \frac{6}{4}$

[53] $\frac{13}{11}, \frac{7}{5}, 1\frac{5}{9}, 1\frac{3}{4}$

[54] $-16\frac{1}{4}, -16\frac{1}{8}, -15\frac{2}{3}, -15\frac{1}{9}$

[55] 77 ft

[56] 18.8 cm

[57] 169 yd^2

[58] 34.65 km^2

[59] 6859 m^3

[60] 60,888 $in.^3$

[61] bar graph or circle graph

[62] 4.8, 4.5, 3

[63] 55, 54.5, no mode

[64] 11.9, 11, 5 and 12