Neshaminy School District

Curriculum, Assessment & Instruction Department

Mathematics

Summer Preparation Packet for 6th Grade Pre-Algebra (Accelerated Math)

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 one's 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 work, on a separate sheet if needed.
- Do not use a calculator.

Name: _____

Date: _____

1) Write the value of the underlined digit in 123. <u>4</u> 56	10) Find the sum: 0.006 + 0.3
2) Write 41.005 in words.	11) Find the sum: 8.3 + 14 + 3.53
3) Write one hundred three and fifteen hundredths.	12) Find the difference: 7.43 - 5.6
4) Use >, <, or = to compare: 2.53 and 2.525	13) Find the difference: 9.07 - 0.304
5) Use >, <, or = to compare: 72.520 and 72.52	14) Find the difference: 82 - 5.72
6) Order the numbers from least to greatest:	15) Find the product: 5.32 x 8
3.21, 0.321, 32.1, 0.32, 2.31	
7) Round 356.74 to the nearest whole number.	16) Find the product: 1.7 x 45.3
8) Round 146.256 to the nearest tenth.	17) Find the product: $3.4 \times 2.7 \times 5$

9) Round 27.584 to the nearest hundredth.

18) Find the quotient: $6.4 \div 8$

19) Find the quotient: 36 ÷ 2.4

26) Write
$$\frac{7}{21}$$
 in simplest form.

20) Find the quotient: 10.17 ÷ 5

27) Write
$$5\frac{8}{12}$$
 in simplest form.

21) Find the area of a rectangle with length 5 inches and width 2.7 inches. 28) Find the LCD (least common denominator): $\frac{3}{4}$ and $\frac{5}{8}$

22) Paula is buying lunch. She buys an ice tea for\$1.15, a turkey sandwich for \$3.52, and a bag ofchips for \$.95. What is the total she pays for lunch?

29) Find the LCD (least common denominator): $\frac{2}{3}$, $\frac{1}{4}$, and $\frac{5}{6}$

23) Using your answer from #22, how much change will Paula get if she pays with a \$10 bill?

30) Write $\frac{33}{5}$ as a mixed number.

24) What portion of the circle is shaded? Express your answer as a decimal and fraction.

31) Write $5\frac{3}{7}$ as an improper fraction.

25) What portions of the rectangle is shaded? Express your answer as a simplified fraction.

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32) Find the sum:
$$\frac{4}{9} + \frac{3}{9}$$
 39) Find the product: $\frac{1}{3} \times 9$

33) Find the difference:
$$\frac{8}{12} - \frac{5}{12}$$
 40) Find the quotient: $\frac{7}{9} \div \frac{1}{5}$

34) Find the sum:
$$4\frac{4}{8} + 3\frac{1}{8}$$
 41) Find the quotient: $\frac{11}{12} \div \frac{2}{9}$

35) Find the difference: $4\frac{6}{10} - 1\frac{3}{10}$ 42) Find the unit rate for 420 calories in 6 servings.

36) Find the sum:
$$\frac{6}{7} + \frac{3}{14}$$
 43) Find the unit rate for \$19.50 for 3 T-shirts.

37) Find the difference:
$$1 - \frac{1}{3}$$

44) Do the ratios form a proportion?
 $\frac{2}{5}$ and $\frac{8}{20}$

38) Find the product:	Find the product: $\frac{2}{2} \times \frac{3}{4}$	45) Do the ratios form a proportion?			
	3	7	<u>8</u> 5	and	$\frac{36}{20}$

46) Write the percent as a decimal: 18%
54) Find the mean, the median and the mode for the data:
16,28,15,18,19,23,27,12,14,17,25
47) Write the percent as a decimal: 5%

48) Write the percent as a fraction: 45%

55) Bill scored 100%, 100%, 90%, 70% and 60% on five guizzes. Find the mean, median, and mode.

49) Write the percent as a fraction: 9%

50) Write the decimal as a percent: 0.56

A.) Which makes his grades look the highest, the mean, the median or the mode?

51) Write the decimal as a percent: 0.07

52) Write the fraction as a percent: $\frac{6}{25}$

B.) Which measure should his teacher use to convinceBill to study harder for his guizzes?

53) Write the fraction as a percent: $\frac{1}{2}$

56) Name a positive or negative number to represent an increase of 15 points in your math grade.

57) Name a positive or negative number to represent spending \$42.

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58) Compare 11 📃 -7. Use <, =, or >.
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59) Order the integers 3, -8, 8, and 0 from least to greatest.

For problems 60 and 61, name the opposite of the integer.

60) 4 61) -1

For problems 62 and 63, Find the absolute value.

62) 7 63) -2

64) Compare 8 -8. Use <, =, or >.

65) The four best scores from an amateur golf tournament sponsored by a local golf club are given in the table. Since the lowest score wins, which golfer won the tournament?

Player	Score
Mr. Benitez	-1
Mr. Hill	-4
Mr. Williams	-5
Mr. Hayashi	6

For problems 66 - 69, solve each equation.

68)
$$\frac{b}{6} = 3$$
 69) 13v = 195



72) The diagram shows the shape of a window in the attic of a house. Find the area of the window.



d. 39 ft^2

73) Find the area of the trapezoid.







75) Find the volume of the rectangular prism.

76) Find the volume of the triangular prism.



77) Find the volume of the cylinder. Use 3.14 for π . Round your answer to the nearest cubic unit.



78) Find the surface area of the prism.



79) Find the surface area of the pyramid. If necessary, round your answer to the nearest hundredth.



80) Find the surface area of the cylinder. Use 3.14 for π . Round your answer to the nearest hundredth.



