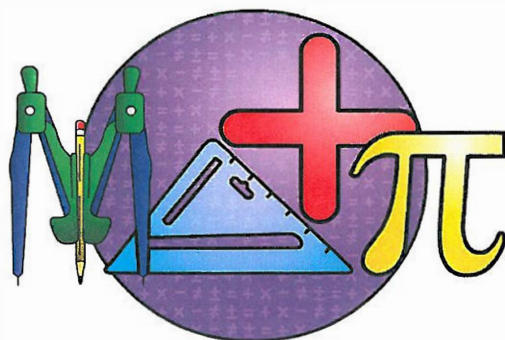




8th grade Pre-Algebra - Summer Assignment

Attached is your math summer assignment packet that is to be completed and turned in to your math teacher on the first full day of school.

All problems are to be completed on separate lined loose-leaf paper, numbered in numerical order. Place a box around your final answers and show **ALL** your work. All answers are then to be transferred to the attached answer sheet as well. You may use a calculator to do your work, however, you must show your calculations on your paper.

This assignment will be graded upon your return to school and you will be tested within the first two weeks on all the material in the packet.

Have a wonderful summer and happy calculating!

Name: _____ Class: _____ Date: _____

SHOW ALL WORK your in number order on a separate paper. Write your answers on the answer key unless you need to graph.

Summer Review Packet 8th Grade Pre-Algebra

Give the place and value of the underlined digit. Then round the number to that place.

1. 4561.23

2. 875.43

3. 87.344

4. 91.8756

Order the numbers from least to greatest.

5. 4.3, 3.4, 4.5, 3.45

6. 0.71, 0.75, 0.7, 0.715

Perform the indicated operation.

7. $4.2 + 1.9$

8. $18.24 + 22.09$

9. $8.6 - 3.45$

10. $8.21 - 5.19$

11. 9.3×0.6

12. 15.2×7.1

13. $1.5 \div 0.3$

14. $18.25 \div 7.3$

Evaluate the expression.

15. $5.56 - 3.73 + 4.65$

SHOW ALL WORK in number order, on separate paper.

16. $4.02 + 6.2 - 3.205$

Evaluate the expression when $x = 3.45$ and $y = 2.78$.

17. $10 - x + y$

18. $6.75 - x - y$

Find the quotient.

19. $19 \div 3.8$

Write the mixed number as an improper fraction.

20. $5\frac{3}{4}$

21. $6\frac{4}{13}$

Write the improper fraction as a mixed number.

22. $\frac{23}{6}$

23. $\frac{27}{11}$

Find the sum or difference.

24. $\frac{3}{7} + \frac{2}{7}$

25. $\frac{6}{17} + \frac{9}{17}$

26. $\frac{17}{21} - \frac{7}{21}$

SHOW ALL WORK in number order, on separate paper.

27. $\frac{16}{29} - \frac{5}{29}$

.

Find the sum or difference.

28. $\frac{3}{5} - \frac{1}{3} + \frac{5}{6}$

29. $\frac{1}{4} + \frac{3}{8} - \frac{1}{3}$

Find the product.

30. $8 \times \frac{3}{4}$

31. $\frac{5}{6} \times 30$

32. $4 \times \frac{7}{9}$

33. $\frac{4}{7} \times 9$

Evaluate the expression when $x = 4$ and $y = 5$.

34. $\frac{1}{4} \cdot \frac{1}{y} + \frac{3}{10}$

35. $\frac{2}{5}x$

SHOW ALL WORK in number order, on separate paper.

Evaluate the expression when $x = \frac{2}{9}$ and $y = 4$.

36. $x \div y$

37. $y \div x$

Evaluate the expression when $y = 24$ and $z = 8$.

38. $\frac{y}{z}$

Evaluate the power.

39. 1.5^4

Evaluate the expression.

40. $40 \div [(14 + 6) \bullet 2]$

Evaluate the expression when $r = 5$ and $s = 8$.

41. $(r + 2)^2 - s$

Evaluate the expression when $x = 5$, $y = 20$, and $z = 2$.

42. $z^2 + x(3 - 1)$

43. $\frac{x + y}{12 - z}$

44. $4(y - z^2)$

Write an equivalent variable expression.

45. $(2 - 12c)(-1)$

Simplify the expression.

46. $5(n - 1) - 3n + 6$

SHOW ALL WORK in number order, on separate paper.

**For the given expression, identify the terms, like terms, coefficients, and constant terms.
Then simplify the expression.**

47. $x + 5 - 9 - 7x$

Solve the equation . Check your answer.

48. $64 = -8a$

Solve the equation. Check your solution.

49. $x + 12 = 9$

50. $-2 = w - 19$

51. $-48 = -3y$

52. $\frac{t}{31} = 14$

53. $x + 5 = 2.7$

54. $19z + 5 = -14$

55. $7(12 - r) = -84$

56. $7y + 11 - 12y = -19$

Write and solve an equation.

57. A bookstore offers three books in a set for \$21.75. Each book costs the same amount. How much does each book cost?

Order the integers from least to greatest.

58. $-56, -102, 98, -58, 114$

Find the sum.

59. $23 + (-37) + 4$

60. What is the value of $5 - x - (-y)$ when $x = 7$ and $y = -2$?

SHOW ALL WORK in number order, on separate paper.

Evaluate the expression when $a = -6$, $b = -13$ and $c = 4$.

61. $a + 15$

62. $-13 + c + b$

63. $c + b$

64. $a + (-5) + b$

Evaluate the expression when $x = -4$, $y = 10$, and $z = -9$.

65. $x - y - z$

66. $-5 - x - z$

Evaluate the expression using mental math. Name the property or properties used.

67. $(-15 \bullet 5) \bullet (-20)$

Perform the indicated operation.

68. $15.12 \div (-2.8)$

_____ 69. $\frac{1}{10} \times \frac{3}{4}$

a. $\frac{15}{2}$

b. $\frac{2}{15}$

c. $\frac{3}{40}$

d. $\frac{40}{3}$

_____ 70. $\frac{1}{3}$ of 3

a. $\frac{1}{18}$

b. $\frac{1}{3}$

c. 1

d. $\frac{1}{9}$

SHOW ALL WORK in number order, on separate paper.

_____ 71. Evaluate $\frac{2}{3}x$ for $x = \frac{3}{4}$.

a. $\frac{1}{2}$

c. $\frac{9}{8}$

b. $\frac{8}{9}$

d. 2

_____ 72. Evaluate $3x$ for $x = \frac{2}{3}$.

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

c. $\frac{1}{2}$

b. 2

d. $\frac{2}{9}$

_____ 73. $5\frac{1}{3} \times 11\frac{3}{5}$

a. 65

c. 55

b. 50

d. 60

_____ 74. $\frac{5}{28} \div \frac{1}{7}$

a. $1\frac{1}{4}$

c. $\frac{5}{196}$

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

d. $\frac{4}{21}$

_____ 75. $6\frac{2}{7} + 2\frac{3}{4}$

a. $2\frac{2}{7}$

c. $2\frac{6}{11}$

b. $17\frac{2}{7}$

d. $\frac{7}{16}$

_____ 76. $2\frac{1}{2} + 4$

a. $\frac{5}{8}$

c. 10

b. $\frac{1}{10}$

d. $1\frac{3}{5}$

_____ 77. $\frac{c}{3} = 4$

a. $1\frac{1}{3}$

c. 12

b. $\frac{1}{12}$

d. $\frac{3}{4}$

SHOW ALL WORK in number order, on separate paper.

_____ 78. $\frac{7}{3}x = 63$

- a. 27
- b. 36

- c. 33
- d. 30

**Summer Review Packet 8th Grade Pre-Algebra
Answer Section**

1. hundreds, 500; 4600
2. tens, 70; 880
3. tenths, 0.3; 87.3
4. thousandths, 0.005; 91.876
5. 3.4, 3.45, 4.3, 4.5
6. 0.7, 0.71, 0.715, 0.75
7. 6.1
8. 40.33
9. 5.15
10. 3.02
11. 5.58
12. 107.92
13. 5
14. 2.5
15. 6.48
16. 7.015
17. 9.33
18. 0.52
19. 5
20. $\frac{23}{4}$
21. $\frac{82}{13}$
22. $3\frac{5}{6}$
23. $2\frac{5}{11}$
24. $\frac{5}{7}$
25. $\frac{15}{17}$
26. $\frac{10}{21}$
27. $\frac{11}{29}$
28. $1\frac{1}{10}$

29. $\frac{7}{24}$
30. 6
31. 25
32. $3\frac{1}{9}$
33. $5\frac{1}{7}$
34. $\frac{7}{20}$
35. $1\frac{3}{5}$
36. $\frac{1}{18}$
37. 18
38. 3
39. 5.0625
40. 1
41. 41
42. 14
43. 2.5
44. 64
45. $-2 + 12c$
46. $2n + 1$
47. terms: x , 5, -9 , $-7x$; like terms, x and $-7x$, 5 and -9 ; coefficients, 1 and -7 ; constant terms, 5 and -9 ; $-6x - 4$
48. -8
49. -3
50. 17
51. 16
52. 434
53. -2.3
54. -1
55. 24
56. 6
57. \$7.25
58. -102 , -58 , -56 , 98, 114
59. -10
60. -4
61. 9
62. -22

- 63. -9
- 64. -24
- 65. -5
- 66. 8
- 67. 1500; commutative and associative properties of multiplication
- 68. -5.4
- 69. C
- 70. C
- 71. A
- 72. B
- 73. D
- 74. A
- 75. A
- 76. A
- 77. C
- 78. A

Our Lady of Lourdes Parish School
8th Grade Pre-Algebra Regular Math - Answer Sheet

Student Name: _____

1.	21.
2.	22.
3.	23.
4.	24.
5.	25.
6.	26.
7.	27.
8.	28.
9.	29.
10.	30.
11.	31.
12.	32.
13.	33.
14.	34.
15.	35.
16.	36.
17.	37.
18.	38.
19.	39.
20.	40.

Our Lady of Lourdes Parish School
8th Grade Pre-Algebra Regular Math - Answer Sheet

41.	65.
42.	66.
43.	67.
44.	68.
45.	69.
46.	70.
47.	71.
48.	72.
49.	73.
50.	74.
51.	75.
52.	76.
53.	77.
54.	78.
55.	
56.	
57.	
58.	
59.	
60.	
61.	
62.	
63.	
64.	