Last Name _____ DATE _____ SCORE _____
(Please print)
First Name _____ School _____

**MATH TEST**
Show your work and answers in simplest form. **No calculators please**.

1. $9486 + 735 + 97$
2. $7006 - 4397$
3. $856 \times 79$
4. $27\overline{)972}$
5. $13.2 + 8.7 + 916.8$
6. $\$756.23 - 97.49$
7. $78.3 \times 0.96$
8. $4.7\overline{)120.32}$
9. $\frac{5}{24} + \frac{13}{24}$
10. $3\frac{5}{8} + 7\frac{3}{4}$
11. $\frac{5}{6} - \frac{3}{4}$
12. $14\frac{3}{8} - 9\frac{7}{16}$
13. $\frac{2}{3} \times \frac{9}{10}$
14. $1\frac{7}{8} \times 2\frac{2}{5}$
15. $2\frac{1}{4} \div \frac{15}{16}$
16. $\frac{17}{25} = \_\_\_\%$
17. $0.095 = \_\_\_\_\%$
18. Find 35% of 136.
19. $18 - 3 \times 4$
20. 15% of this number is 22.
21. $15 \times 3^2 - 10 \times 8$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____
21. _____

Each of the following problems has a sequence of numbers that follow a definite pattern. Decide what the next two numbers of each sequence should be. Mark the letter of your choice in the answer column.

22. 13, 16, 19, 22, 25, 28, ___, ___

a. 29, 30 b. 29, 31 c. 31, 34 d. 31, 33 22. _____

23. 37, 34, 39, 36, 41, 38, 43, ___, ___

a. 48, 45 b. 40, 45 c. 48, 53 d. 45,48 23. _____

24. 8, 5, 2, -1, -4, -7, ___, ___

a. -10, -13 b. -8, -9 c. -9, -11 d. -10, -11 24. _____

25. 5, -7, 9, -11, 13, -15, ___, ___

a. 16, -17 b. 17, -19 c. 19, -21 d. -17, 19 25. _____

26. 256, -128, 64, -32, 16, -8, ___, ___

a. 6, -4 b. -4, 2 c. 4, -2 d. 4, -1 26. _____

27. $x^2y^{13}, x^3y^{12}, x^4y^{11}, x^5y^{10}, x^6y^9$, ___, ___

a. $x^7y^8, x^8y^7$ b. $x^5y^{10}, x^4y^{11}$ c. $x^7y^9, x^8y^{10}$ d. $x^7y^{10}, x^8y^9$ 27. _____

28. 1, 2, 4, 7, 11, 16, 22, ___, ___

a. 28, 34 b. 32, 42 c. 27, 33 d. 29, 37 28. _____

29. $2x^3, 5x^4, 7x^6, 10x^7, 12x^9, 15x^{10}$ ___, ____

a. $17x^{12}, 20x^{13}$ b. $18x^{12}, 21x^{13}$ c. $17x^{11}, 20x^{13}$ d. $18x^{11}, 21x^{12}$ 29. _____

30. 3, 4, 9, 9, 10, 15, 15, 16, 21, ___, ___

a. 21, 22 b. 21, 26 c. 22, 27 d. 26, 26 30. _____

31. -16, 8, -4, 2, -1, 1/2, -1/4, ___, ____

a. 1/6, -1/8 b. 1/8, -1/16 c. 1/6, -1/12 d. -1/8, 1/12 31. _____

Choose the algebraic expression in each problem that best describes each word expression. Mark the letter of your choice in the answer column. "None of these" means that none of the first three choices is correct

32. An unknown number plus ten

a. 10n b. n + 10 c. n + (n + 10) d. None of these 32. _____

33. Twelve more than three times an unknown number

a. 12n + 3n b. 3(n +12) c. 3n + 12 d. None of these 33. _____

34. Eight divided by an unknown number

a. $\frac{8}{n}$ b. $\frac{n}{8}$ c. $n \div 8$ d. None of these 34. _____

35. The product of eighteen and an unknown number

a. 18 + n b. 18 - n c. 18/n d. None of these 35. _____

36. An unknown number decreased by eleven

a. $n \div 11$ b. n - 11 c. 11 - n d. None of these 36. _____

Choose the algebraic expression that best answers each question.

37. A stick 35 cm long is broken into two parts. If n represents the length of one part, which expression represents the length of the other part?

a. n + 35 b. n - 35 c. 35 - n d. None of these 37. _____

38. Let a represent the length of one side of a square. Which expression represents the perimeter?

a. 4a b. 2a c. c + 4 d. None of these 38. _____

39. Let n represent an even number. Which expression represents the next greater even number?

a. 2n b. 2n + 2 c. n + 2 d. None of these 39. _____

40. Let r represent the average speed in kilometers per hour of an automobile on a 350 km trip. Which algebraic expression represents the number of hours required for the trip?

a. $\frac{350}{r}$ b. $\frac{r}{350}$ c. 350r d. None of these 40. _____

Choose the simplified form of each expression.

41. $(-15)+7$

a. -22 b. -8 c. 8 d. None of these 41. _____

42. $(-12)+(-9)$

a. 21 b. -3 c. -21 d. None of these 42. _____

43. $9-16$

a. -7 b. 7 c. -5 d. None of these 43. _____

44. $(-6)-(-13)$

a. 7 b. -7 c. -19 d. None of these 44. _____

45. $-7\times 8$

a. -63 b. 56 c. -56 d. None of these 45. _____

46. $(-9)\times(-6)$

a. 56 b. -54 c. -15 d. None of these 46. _____

47. $\dfrac{-12}{-4}$

a. -3 b. 3 c. -8 d. None of these 47. _____

48. $(-1)\times(-1)\times(-1)\times(-2)\times(-2)$

a. -4 b. 8 c. -6 d. None of these 48. _____

49. $(-3)+12-(-7)$

a. 16 b. 2 c. -2 d. None of these 49. _____

50. $0-(-17)$

a. 0 b. -17 c. 17 d. None of these 50. _____

***Current math instructor's or principal's math recommendation:***

____ ***Pre-Algebra*** ____ ***Algebra*** ____***Geometry***

Comments: _____

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