

1995 - 1996 TMSCA Middle School Number Sense Test # 3

- 1)  $403 - 299 =$  \_\_\_\_\_
- 2)  $18 \times 3 =$  \_\_\_\_\_
- 3)  $267 \times 11 =$  \_\_\_\_\_
- 4) Round \$674.83 to the nearest dollar. \$ \_\_\_\_\_
- 5)  $(4 \times 100) + (3 \times 10) + (6 \times 1) + (5 \times \frac{1}{10}) =$   
 \_\_\_\_\_ (decimal)
- 6)  $101 \times 54 =$  \_\_\_\_\_
- 7)  $4949 \div 7 =$  \_\_\_\_\_
- 8)  $44 \times 25 =$  \_\_\_\_\_
- 9)  $103 =$  \_\_\_\_\_ Roman Numeral
- \*10)  $4103 + 3892 + 146 =$  \_\_\_\_\_
- 11)  $\frac{1}{2}$  of  $\frac{1}{2}$  of 48 = \_\_\_\_\_
- 12)  $\frac{5}{8} + \frac{3}{8} + \frac{1}{4} =$  \_\_\_\_\_
- 13) The reciprocal of  $4\frac{3}{8}$  is \_\_\_\_\_
- 14)  $36 \times 34 =$  \_\_\_\_\_
- 15)  $65\% =$  \_\_\_\_\_ (fraction)
- 16)  $217 \div 4$  has a remainder of \_\_\_\_\_
- 17)  $\frac{29}{6} =$  \_\_\_\_\_ (mixed number)
- 18)  $1 + 2 + 3 + \dots + 18 + 19 =$  \_\_\_\_\_
- 19) Write 46,000 in scientific notation. \_\_\_\_\_
- \*20)  $204 \times 897 =$  \_\_\_\_\_
- 21)  $12^2 =$  \_\_\_\_\_
- 22)  $80 \times 15 =$  \_\_\_\_\_
- 23)  $(-2) + (-2) + (-2) + (-2) - (-2) =$  \_\_\_\_\_
- 24)  $13 \times 7 + 13 \times 3 =$  \_\_\_\_\_
- 25) The perimeter of a square with side  $9\frac{1}{2}$  is \_\_\_\_\_
- 26) If  $4a + 5 = 41$ , then  $a =$  \_\_\_\_\_
- 27) 6 is what percent of 18? \_\_\_\_\_ %
- 28) The supplement of a  $73^\circ$  angle is \_\_\_\_\_  $^\circ$
- 29)  $4 \times 3 + 6 \div 2 =$  \_\_\_\_\_
- \*30)  $\sqrt{16795} =$  \_\_\_\_\_
- 31) 4 hours 17 minutes plus 1 hour 28 minutes =  
 \_\_\_\_\_ hours
- 32) One mile = \_\_\_\_\_ yards
- 33)  $3\frac{3}{4}\% =$  \_\_\_\_\_ (fraction)
- 34)  $143 \times 101 =$  \_\_\_\_\_
- 35) If  $\frac{2}{5} = \frac{3}{x}$ , then  $x =$  \_\_\_\_\_
- 36)  $379 \div 11$  has a remainder of \_\_\_\_\_
- 37)  $8\frac{1}{5} \times 7\frac{1}{5} =$  \_\_\_\_\_ (mixed number)
- 38) The next term in the sequence: 0, 1, 8, 27, ... is  
 \_\_\_\_\_
- 39)  $\{1, 3, 5, 7, 9\} \cup \{1, 2, 3, 4, 5\}$  has how many  
 elements? \_\_\_\_\_
- \*40)  $165,480 + 97,612 - 26,847 =$  \_\_\_\_\_

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41) If  $x = 4$ ,  $y = -2$  and  $z = -1$ , then  $2x + \frac{y}{z} =$  \_\_\_\_\_

42)  $132 \div 9 =$  \_\_\_\_\_ (mixed number)

43) The mean of 16, 13, 19 and 12 is \_\_\_\_\_

44) The area of a rectangle with length 12 and width 9 is \_\_\_\_\_

45)  $5 \times 12 \frac{3}{5} =$  \_\_\_\_\_

46) 12% of 50 is 6% of \_\_\_\_\_

47)  $19^2 - 11^2 =$  \_\_\_\_\_

48)  $\frac{17}{40} =$  \_\_\_\_\_ (decimal)

49) If three tennis balls cost \$4.00, then 5 dozen balls cost \$ \_\_\_\_\_

\*50)  $\pi^5 =$  \_\_\_\_\_

51)  $4 \frac{1}{2} \times 80 =$  \_\_\_\_\_

52) 24 plus 80% of 200 is \_\_\_\_\_

53) If  $f(x) = \frac{1}{x} + 2$ , then  $f\left(\frac{1}{2}\right) =$  \_\_\_\_\_

54)  $41 \times 26 =$  \_\_\_\_\_

55)  $\sqrt{729} =$  \_\_\_\_\_

56) How many diagonals can be drawn from a vertex of a pentagon? \_\_\_\_\_

57)  $4! =$  \_\_\_\_\_

58) What number times 6 and added to 12 gives the same result? \_\_\_\_\_

59) The area of a rhombus with diagonals 10 and 7 is \_\_\_\_\_

\*60)  $25 \times 30 \times 35 =$  \_\_\_\_\_

61) An isosceles triangle has how many congruent sides?  
\_\_\_\_\_

62)  $\sqrt[3]{1\frac{7}{9}} =$  \_\_\_\_\_

63) The line  $y = \frac{1}{2}x + 7$  intersects the y axis at \_\_\_\_\_

64)  $36^2 =$  \_\_\_\_\_

65)  $11021_3 =$  \_\_\_\_\_ <sub>9</sub>

66) How many subsets of {J, O, K, E, R} have an even number of elements? \_\_\_\_\_

67) The slope of the line passing through (2, 8) and (1, 3) is \_\_\_\_\_

68) How many faces are on a hexahedron? \_\_\_\_\_

69)  $3^0 + 2^1 + 1^2 =$  \_\_\_\_\_

\*70)  $\sqrt{86012} =$  \_\_\_\_\_

71) The sum of three consecutive integers is 36. The smallest integer is \_\_\_\_\_

72) The sum of the roots of  $x^2 + 4x + 8 = 0$  is \_\_\_\_\_

73) 15 is what percent more than 10? \_\_\_\_\_

74)  $100 \div 5 =$  \_\_\_\_\_

75)  $(2a + 1)(3a + 1) =$  \_\_\_\_\_

76) The x - coordinate of the midpoint of the line segment between (2,8) and (0,6) is \_\_\_\_\_

77)  $\pi$  radians = \_\_\_\_\_ degrees

78)  $1001_2 + 1011_2 =$  \_\_\_\_\_ <sub>2</sub>

79)  $3636 \div 6 =$  \_\_\_\_\_

\*80)  $19^3 =$  \_\_\_\_\_