2003 - 2004 TMSCA Middle School Number Sense Test # 9

1) $.38 =$ _____ %

2) $6.9 + 4.1 =$ _____

3) $3\frac{1}{2}\% =$ _____ decimal

4) $17 \times 6 =$ _____

5) $64 \times 11 =$ _____

6) $40^2 =$ _____

7) $144 \div 9 =$ _____

8) $101 \times 47 =$ _____

9) $963 - 369 =$ _____

*10) $94 + 23 + 71 - 86 + 5 =$ _____

11) $89.5 \times 10^{-3} =$ _____

12) $(6 \times 100) + (2 \times 10) + (7 \times 1) + (0 \times .1) =$ ____

13) $1\frac{5}{6} + 2\frac{1}{2} =$ _____

14) $222 =$ _____ Roman numeral

15) $1618 \div 2 =$ _____

16) 35 nickels = $ _____

17) The median of 17, 8, 5 and 19 is _____

18) $72 \times 25 =$ _____

19) $298 + 298 + 298 =$ _____

*20) $96 \div 7.3 =$ _____

21) 3.5 feet = _____ inches

22) $8\frac{4}{5}\% =$ _____ fraction

23) $125 \times 24 =$ _____

24) $105^2 =$ _____

25) Which is smaller $-\frac{3}{7}$ or $-\frac{4}{9}$? _____

26) $8 \div 1\frac{1}{3} =$ _____

27) $(-3) \times (-1) \times (-2) \times (-1) =$ _____

28) $29 \times 21 =$ _____

29) If $4a + 2 = 2a + 18$, then $a =$ _____

*30) $7\frac{1}{3} \times 4\frac{3}{8} \times 3\frac{5}{6} \times 1.4 =$ _____

31) The area of a square with perimeter 52 is _____

32) $18 \times 8.5 =$ _____

33) The supplement of an 8° angle is _____°

34) $50 \times 2.64 =$ _____

35) $4\frac{3}{5} \times 4\frac{2}{5} =$ _____ mixed number

36) $65_9 =$ _____ 10

37) $1 + 2 + 3 + ... + 16 + 17 =$ _____

38) 18 has _____ positive, whole number factors

39) $16^2 - 15^2 =$ _____

*40) $\pi^7 =$ _____

41) $-6^2 =$ _____

42) $96 \times 89 =$ _____

43) 56% of 9 is 8% of _____

44) Adding $4\frac{1}{2}\%$ of a number to the number is the same as multiplying the number by _____ decimal

45) 34 is 17% of _____

46) $10\frac{1}{4} \times 2\frac{1}{4} =$ _____ mixed number

47) {m, a, k, e, n, z, i, e} has _____ improper subsets

48) $\frac{33}{40} =$ _____ decimal

49) The number of positive, proper fraction in lowest terms with demoninator 7 is _____

*50) $14 \times 14285 =$ _____

51) If $f(x) = 2x^2 + 7x - 3$, then $f(3) =$ _____

52) If $\frac{1}{6} + \frac{1}{5} = \frac{1}{x}$, then $x =$ _____

53) The area of a square with diagonal $\sqrt{14}$ is _____

54) $27 \times 41 =$ _____

55) $111 \times 523 =$ _____

56) $.\overline{7} + .\overline{3} =$ _____

57) The smallest of four consecutive integers whose sum is 78 is _____

58) $\frac{6}{7} + \frac{7}{6} =$ _____ mixed number

59) $103 \times 112 =$ _____

*60) $\sqrt{35{,}000} =$ _____

61) $\frac{15}{13} \times 15 =$ _____ mixed number

62) $7^2 + 14^2 =$ _____

63) The geometric mean between 8 and 2 is _____

64) 18 is _____ % less than 24

65) $8! \div 6! =$ _____

66) The surface area of a sphere with radius 7 is _____

67) If the hypotenuse of a 45-45-90 triangle measures $\sqrt{2}$, then a leg measures _____

68) $18_{10} =$ _____ 4

69) The slope of the line passing through (6,–3) and (1,1) is _____

*70) 41% of 7,752 is _____

71) $\sqrt{98}$ simplified is _____

72) $5\frac{3}{8} \times 8\frac{2}{5} =$ _____ mixed number

73) 15 miles/hour = _____ feet/sec

74) $66\frac{2}{3} \times 27 =$ _____

75) $(3m + 2)^2 =$ _____

76) $42_5 - 33_5 =$ _____ 5

77) $1111^2 =$ _____

78) The slope of the line $\frac{1}{3}y = -x + 1$ is _____

79) $0 \times 1 \times 2 \times 3 \times 4 =$ _____

*80) $4^4 =$ _____