2003 - 2004 TMSCA Middle School Number Sense Test # 7

1) $25\% =$ _____ fraction

2) $542 - 245 =$ _____

3) $126 \div 9 =$ _____

4) $\frac{3}{5} =$ _____ %

5) $3 \times 399 =$ _____

6) $.031 \times 10^5 =$ _____

7) $6 \times 18 =$ _____

8) $\frac{4}{7} + \frac{1}{3} =$ _____

9) $\frac{17}{20} =$ _____ decimal

*10) $9 + 18 + 27 + 36 + 45 + 54 =$ _____

11) $30^2 =$ _____

12) $25 \times 36 =$ _____

13) $6.4 - 3.2 + 1.8 =$ _____

14) $2\frac{1}{4} - 1\frac{3}{4} =$ _____

15) $5438 \div 9$ has a remainder of _____

16) CCLXI = _____ Arabic number

17) The mean of 34, 39, 38 and 33 is _____

18) $58 \times 52 =$ _____

19) $5\frac{4}{9}\% =$ _____ fraction

*20) $400 \div 13 =$ _____

21) Which is larger .67 or $\frac{2}{3}$? _____

22) $2003 =$ _____ Roman numeral

23) $12.5 \times 56 =$ _____

24) .125 kilometers = _____ centimeters

25) The length of a rectangle with perimeter 26 and width 5 is _____

26) $19 \div 4\frac{1}{2} =$ _____

27) $\frac{4}{14} + \frac{6}{21} + \frac{10}{35} =$ _____

28) $(-24) \div (-6) =$ _____

29) If $\frac{7}{5} = \frac{8}{x}$, then $x =$ _____

*30) $5.8 \times 1.3 \times 7.2 \times 1.9 =$ _____

31) If $.25a + 8 = 13$, then $a =$ _____

32) If a package of 50 golf tees costs \$3.50, then one tee costs \$ _____

33) $20 \times 75 =$ _____

34) The cost of driving a motorcycle 600 miles at \$.13 per mile is \$ _____

35) $7\frac{1}{4} \times 7\frac{3}{4} =$ _____ mixed number

36) The GCF of 12 and 102 is _____

37) $71 \times 9 + 9 \times 29 =$ _____

38) $102 \times 103 =$ _____

39) $3\frac{2}{3} \times 15 =$ _____

*40) $\pi^6 =$ _____

41) 39% of 7 is 13% of _____

42) -12^2 = _____

43) 24_5 = _____ 10

44) 101×265 = _____

45) The number of positive, proper fractions in lowest terms with denominator 6 is _____

46) 43×63 = _____

47) Adding 19% of a number to the number is the same as multiplying the number by _____

48) $7\frac{3}{5} \times 8\frac{3}{5}$ = _____ mixed number

49) The side of a square with diagonal $1.8\sqrt{2}$ is _____

*50) $62 \times 7\frac{9}{13}$ = _____

51) 81×35 = _____

52) If $f(x) = \frac{3}{x}$, then $f(\frac{1}{6})$ = _____

53) The difference between the supplement and the complement of a 35° angle is _____°

54) {m, c, l, t, o, n} ∪ {r, y, a, n} has ____elements

55) 24 is two and two-thirds of _____

56) If $\frac{1}{9} - \frac{1}{12} = \frac{1}{x}$, then x = _____

57) 8 acres = _____ square miles

58) The geometric mean between 49 and 1 is _____

59) $\sqrt{1296}$ = _____

*60) 142857×12 = _____

61) $77\ in^3$ = _____ gallons

62) 72_{10} = _____ 9

63) 1111_2 = _____ 10

64) 22 feet/sec = _____ miles/hour

65) $8^2 + 16^2$ = _____

66) The slope of the line passing through (5,.5) and $(8, 1\frac{1}{2})$ is _____

67) 993×997 = _____

68) 9×3367 = _____

69) If the hypotenuse of an isosceles right triangle measures $17\sqrt{2}$, then a leg measures _____

*70) 28% of 5192 = _____

71) 9! ÷ 8! = _____

72) If (0,b) is the y-intercept of the line $2y - 3x = 16$, then b = _____

73) $8\frac{2}{3} \times 6\frac{1}{8}$ = _____ mixed number

74) The lateral surface area of a cone with slant height 7 and radius 4 is _____

75) $33\frac{1}{3} \times 87$ = _____

76) $(a + 2)(2a - 1)$ = _____

77) $35_9 + 54_9$ = _____ 9

78) 4^2 = _____

79) If $8^n = 32{,}768$, then n = _____

*80) $\sqrt{222{,}000}$ = _____