2000 - 2001 TMSCA Middle School Number Sense Test # 4

1) 11^2 = _____

2) 7.9 + 3.8 + 1.3 = _____

3) 25 × 52 = _____

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

5) 5 × 1997 = _____

6) 573 × 11 = _____

7) 2 + 2 × 2 - 2 ÷ 2 = _____

8) XCIV = _____ Arabic Numeral

9) 7.9×10^4 = _____

*10) 298 + 588 + 1192 = _____

11) 50% of 19 is _____

12) $\frac{1}{3}+\frac{2}{6}+\frac{3}{9}+\frac{4}{12}$ = _____

13) The mean of 8, 9 and 5 is _____

14) $6\frac{5}{7}\times 7$ = _____

15) 63 × 67 = _____

16) Which is smaller $.33 or \frac{1}{3}$? _____

17) 4 × 1000 + 13 × 100 + 4 × 10 + 5 × 1 = ___

18) 165 ÷ 9 has a remainder of _____

19) 4242 ÷ 7 = _____

*20) 593 × 287 = _____

21) The LCM of 12 and 42 is _____

22) 2.3 liters = _____ milliliters

23) 19 × 303 = _____

24) The additive inverse of 1.7 is _____

25) $21^2 - 11^2$ = _____

26) $36 \div 4\frac{1}{2}$ = _____

27) The radius of a circle with area 49π is _____

28) $7\frac{3}{8}\times 7\frac{5}{8}$ = _____ (mixed number)

29) 17% of 48 is 51% of _____

*30) $8\times 6\frac{3}{4}\times 11\times 4\frac{2}{9}$ = _____

31) If a = -3, b = -2 and c = -1, then ab - c = ___

32) 109 × 109 = _____

33) 92 × 97 = _____

34) The perimeter of a rectangle with length 3.1 and width 1.4 is _____

35) If 2n + 5 + n = 23, then n = _____

36) The sum of the positive, prime divisors of 42 is _____

37) 75 × 36 = _____

38) $39 \times 33\frac{1}{3}$ = _____

39) 19^2 = _____

*40) 76% of 37,142 is _____

41) The smallest palindrome larger than 115 is __

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42) {p, i, n, e} ∪ {f, i, r} has _____ elements

43) $\frac{1}{2}$ square mile = _____ acres

44) $6\frac{2}{3} \times 3\frac{2}{3}$ = _____ (mixed number)

45) 56_8 = _____ $_{10}$

46) If $\frac{1}{5} + \frac{1}{7} = \frac{1}{x}$, then x = _____

47) 15 miles/hour = _____ feet/sec

48) $11\frac{1}{3}\%$ = _____ (fraction)

49) The sum of the supplement and the complement of a 65^O angle is _____ ^{O}

*50) 6^4 = _____

51) If $x^2 = 7$ and $x < 0$, then x = _____

52) $\frac{11}{40}$ = _____ (decimal)

53) The 5th triangular number is _____

54) 43 × 37 = _____

55) 17_{10} = _____ $_4$

56) If $43_b = 27_{10}$, then b = _____

57) $6^2 + 12^2$ = _____

58) $\sqrt{18}$ = _____

59) If 4 a's = 5 b's and 3 b's = 1 c, then 1 a = _____ c's

*60) 14 × 15 × 16 = _____

61) If $f(x) = \sqrt{2x}$, then f(32) = _____

62) The diagonal of a square with side 7 is _____

63) The slope of the line passing through (0, 9) and (-6, 11) is _____

64) 22 × 33 = _____

65) If the hypotenuse of a 30 - 60 - 90 triangle measures 24, then the long leg measures _____

66) 994 × 993 = _____

67) 6 is what % less than 24? _____ %

68) The volume of a cube with edge 7 is _____

69) $\sqrt{(32)(50)}$ = _____

*70) 45 × 142857 = _____

71) The largest of 3 consecutive integers whose sum is 36 is _____

72) $\frac{8}{7} \times 8$ = _____ (mixed number)

73) The distance between the points (2, 6) and (-10, 11) is _____

74) 3367 × 12 = _____

75) The sum of the interior angles of a nonagon is _____ ^{O}

76) How many days are there from Feb. 22, 2000 to April 5, 2000? _____

77) (x - 3)(x + 3) = _____

78) $42_6 - 31_6$ = _____ $_6$

79) Which is prime 151 or 153? _____

*80) The surface area of a sphere with radius 7 is