1998 - 1999 TMSCA Middle School Number Sense Test # 3

1) 1439 - 867 = _____

2) 75% = _____ (fraction)

3) 3999 + 4998 = _____

4) 25 × 96 = _____

5) $\frac{7}{8}+\frac{3}{4}$ = _____ (mixed number)

6) 101 × 92 = _____

7) 5656 ÷ 7 = _____

8) If one dozen donuts cost $3.36, then 3 donuts cost $ = _____

9) 5 + 2 × 4 × 2 = _____

*10) 6 + 16 + 26 + 36 + 46 + 56 = _____

11) $\frac{44}{52}$ reduced to lowest terms is _____

12) 35 × 35 = _____

13) 13^2 = _____

14) $4\frac{3}{7}\times 7$ = _____

15) 3 quarts = _____ gallons

16) The mode of 7, 3, 4, 7, 3, 2, 3, 7, 4 and 3 is _____

17) 11 × 1488 = _____

18) 113 = _____ Roman Numeral

19) 17.5 × 6 = _____

*20) $\frac{1}{3}$ of 55,555 = _____

21) The perimeter of a square with side 4.7 is _____

22) $7 \div 2\frac{1}{3}$ = _____

23) The additive inverse of $-\frac{1}{3}$ is _____

24) Which is smaller $-\frac{1}{8}$ or $-\frac{4}{31}$? _____

25) Which is prime 113 or 117? _____

26) 63 × 43 = _____

27) $\frac{3}{5}\times\frac{4}{9}\times\frac{5}{8}$ = _____

28) 104 × 109 = _____

29) $5\frac{3}{5}\%$ = _____ (fraction)

*30) 67,241 ÷ 12 = _____

31) The complement of an 18^{O} angle is _____ ^{O}

32) If 4a + 2 = 38, then a = _____

33) $7\frac{3}{4}\times 7\frac{1}{4}$ = _____ (mixed number)

34) 31_5 = _____ $_{10}$

35) 111 × 45 = _____

36) $\sqrt{484}$ = _____

37) 2 + 4 + 6 + 8 + 10 + 12 = _____

38) 31_{10} = _____ $_5$

39) 75 × 64 = _____

*40) 46,823 + 23,592 - 16,817 = _____

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41) A tetrahedron has _____ faces

42) 16×10^{-3} = _____

43) The area of a circle with diameter 18 is ____

44) $7\frac{1}{5} \times 8\frac{1}{5}$ = _____ (mixed number)

45) The next term of 15, 14, 12, 9, 5, ... is _____

46) 125 × 24 = _____

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

48) {U, C, L, A} has _____ subsets

49) 203_5 = _____ 10

*50) $(1 + 2 + 3 + ... + 8 + 9)^2$ = _____

51) $.\overline{18}$ = _____ (fraction)

52) The measurement of an exterior angle of a hexagon is _____ O

53) The product of the GCF and the LCM of 24 and 26 is _____

54) If 4 a's = 5 b's and 3 b's = 2 c's, then 1 a = _____ c's

55) The hypotenuse of a right triangle with legs 9 and 12 is _____

56) $57^2 - 43^2$ = _____

57) $4^2 + 12^2$ = _____

58) $\frac{17}{40}$ = _____ (decimal)

59) 8 is 2% of _____

*60) 17 × 142857 = _____

61) The simple interest on $2500 at 3% interest for 4 years is $ _____

62) 103 × 98 = _____

63) The slope of the line passing through (2, -1) and (7, 4) is _____

64) If f(x) = 2x - 7, then f(3) = _____

65) $\sqrt{1764}$ = _____

66) $4\frac{1}{3} \times 6\frac{1}{2}$ = _____ (mixed number)

67) 16 × 23 = _____

68) 18_{10} = _____ 3

69) The distance between (0, 3) and (5, 15) is _____

*70) 3^7 = _____

71) (x - 2)(x - 5) = _____

72) The sum of the roots of $2x^2 - 3x + 7 = 0$ is _____

73) 994 × 998 = _____

74) If $31_b = 22_{10}$, then b = _____

75) $\sqrt{50}$ = _____

76) 360^O = _____ radians

77) -8^2 = _____

78) 1201_3 = _____ 9

79) $23_4 + 11_4$ = _____ 4

*80) The surface area of a sphere with diameter 10 is _____