

2002 - 2003 TMSCA Middle School Number Sense Test # 4

- 1) $38 + 14 + 19 =$ _____
- 2) $60\% =$ _____ (fraction)
- 3) $636363 \div 7 =$ _____
- 4) $50 \times 86 =$ _____
- 5) $248 - 189 =$ _____
- 6) $3.84\% =$ _____ (decimal)
- 7) $3 \times 997 =$ _____
- 8) $1\frac{1}{4} =$ _____ %
- 9) $4 \times 23 =$ _____
- *10) $68,142 + 19,017 + 1,263 =$ _____
- 11) $\frac{13}{20} =$ _____ %
- 12) $761 \times 11 =$ _____
- 13) CDII = _____ Arabic Numeral
- 14) $\frac{1}{3} + \frac{5}{8} =$ _____
- 15) Which is larger $\frac{5}{12}$ or $\frac{3}{7}$? _____
- 16) $55^2 =$ _____
- 17) 2 inches = _____ feet
- 18) $9.27 \times 10^{-3} =$ _____
- 19) $(6 \times 1000) + (3 \times 10) + (4 \times 100) + (8 \times 1) =$

- *20) $7\frac{7}{8} + 12\frac{4}{5} + 21\frac{9}{13} + 6\frac{3}{14} =$ _____
- 21) $28 \div 3\frac{1}{2} =$ _____
- 22) $5\frac{1}{8} \times 8 =$ _____
- 23) $24 \div 4 - 2 \times 3 =$ _____
- 24) 7 quarters + 9 dimes + 13 nickels = \$ _____
- 25) $36 \times 111 =$ _____
- 26) $4\frac{1}{2}\% =$ _____ (fraction)
- 27) $(-8) + 5 - (-3) =$ _____
- 28) $47 \times 67 =$ _____
- 29) The length of a rectangle with width 3 and perimeter 22 is _____
- *30) $4.3 \times 11.62 \times 3.27 \times 1.14 =$ _____
- 31) If a quart of motor oil costs \$1.97, then 6 quarts cost \$ _____
- 32) $1 + 2 + 3 + \dots + 11 + 12 =$ _____
- 33) $2\frac{1}{3} \times 24 =$ _____
- 34) The area of a circle with diameter 28 is _____
- 35) $7\frac{1}{4} \times 5\frac{1}{4} =$ _____ (mixed number)
- 36) If $3x + 7 = 2x + 9$, then $x =$ _____
- 37) The additive inverse of $-\frac{3}{8}$ is _____
- 38) $112 \times 103 =$ _____
- 39) If $a = 10$, $b = -5$ and $c = -2$, then $-\frac{ac}{b} =$ _____

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*40) $97 \times 92 \times 98 =$ _____

41) How many diagonals can be drawn from a single vertex of a dodecagon? _____

42) $12 \times 9 + 12 \times 41 =$ _____

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

44) $94 \times 95 =$ _____

45) The product of the LCM and the GCF of 18 and 6 is _____

46) $8 \text{ ft} \times 2 \text{ ft} \times 27 \text{ ft} =$ _____

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

48) $31_{10} =$ _____ ₈

49) $18^2 - 12^2 =$ _____

*50) $4^6 =$ _____

51) {h, u, b, c, a, p} has _____ proper subsets

52) $43 \times 51 =$ _____

53) If $\frac{1}{12} + \frac{1}{4} = \frac{1}{x}$, then $x =$ _____

54) The number of proper fractions in lowest terms with denominator 9 is _____

55) 36% of 7 is 9% of _____

56) The geometric mean between 3 and 12 is _____

57) If $f(x) = (x - 3)^2$, then $f(1) =$ _____

58) $\frac{5}{8} + \frac{8}{5} =$ _____ (mixed number)

59) The probability of getting all heads when flipping three coins is _____

*60) $\pi^8 =$ _____

61) The slope of the line passing through (-3, 5) and (-7, 13) is _____

62) $17 \times 23 =$ _____

63) If $43_b = 39_{10}$, then $b =$ _____

64) $44_{10} =$ _____ ₆

65) The difference between the supplement and the complement of an 18° angle is _____ $^\circ$

66) 27 is 9% of _____

67) $995 \times 998 =$ _____

68) $1111^2 =$ _____

69) $33 \times 3367 =$ _____

*70) $21 \times 14285 =$ _____

71) The distance between (0, 6) and (12, 1) is _____

72) $12! \div 11! =$ _____

73) 41° Fahrenheit = _____ $^\circ$ Celsius

74) $8^2 + 16^2 =$ _____

75) $77 \text{ in}^3 =$ _____ gallons

76) $5_6 + 3_6 + 11_6 =$ _____ ₆

77) The diagonal of a square with side $\sqrt{3}$ is _____

78) $(3n + 2)(3n - 2) =$ _____

79) $\sqrt{4761} =$ _____

*80) The volume of a cylinder with diameter 10 and height 4 is _____