

2002 - 2003 TMSCA Middle School Number Sense Test # 5

- 1) $462 - 278 =$ _____
- 2) $2 + 4 + 6 + 8 + 10 =$ _____
- 3) $8 \times 27 =$ _____
- 4) $5252 \div 13 =$ _____
- 5) $1.5\% =$ _____ (decimal)
- 6) $52 \times 25 =$ _____
- 7) $40\% =$ _____ (fraction)
- 8) $101 \times 37 =$ _____
- 9) $136 \div 8 =$ _____
- *10) $286 \times 192 =$ _____
- 11) $(9 \times 1) + (6 \times 10) + (3 \times 100) + (8 \times 1000) =$

- 12) $3.82 + 6.14 - .06 =$ _____
- 13) $\frac{24}{54}$ reduced to lowest terms is _____
- 14) $16^2 =$ _____
- 15) Which is larger $\frac{4}{9}$ or $\frac{7}{16}$? _____
- 16) $304 =$ _____ Roman Numeral
- 17) $\frac{1}{4} + \frac{4}{16} + \frac{3}{12} =$ _____
- 18) $6352 \times 11 =$ _____
- 19) $6\frac{3}{7} \times 7 =$ _____
- *20) $2 + 22 + 222 + 2,222 + 22,222 =$ _____
- 21) $17 \div 3\frac{1}{3} =$ _____
- 22) $4\frac{1}{6}$ feet = _____ inches
- 23) $2\frac{1}{2} \times 88 =$ _____
- 24) $6 + 8 \div 2 + 9 =$ _____
- 25) The side of a square with perimeter 14.4 is _____
- 26) $6142 \div 9$ has a remainder of _____
- 27) $\frac{37}{50} =$ _____ %
- 28) $81 \times 89 =$ _____
- 29) $-\frac{48}{-8} =$ _____
- *30) $6\frac{3}{5} + 5\frac{7}{8} \times 2\frac{1}{3} =$ _____
- 31) If $\frac{1}{2}(n - 12) = 1$, then $n =$ _____
- 32) $85^2 =$ _____
- 33) If a new truck tire costs \$199.99, then 4 tires cost\$ _____
- 34) $107 \times 105 =$ _____
- 35) The complement of a 31° angle is _____ $^\circ$
- 36) The radius of a circle with area 169π is _____
- 37) The reciprocal of $2\frac{1}{6}$ is _____
- 38) $1 + 3 + 5 + \dots + 11 + 13 =$ _____
- 39) $36 \times 76 =$ _____

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*40) $9.21 \times 7.13 \times 4.87 \times 1.2 =$ _____

41) $-9^2 =$ _____

42) $2\frac{2}{3}$ hours = _____ minutes

43) If $f(x) = \frac{3}{x}$, then $f\left(\frac{1}{3}\right) =$ _____

44) $6\frac{4}{9} \times 3\frac{4}{9} =$ _____ (mixed number)

45) $125 \times 44 =$ _____

46) The diagonal of a square with side 24 is _____

47) $32^2 - 18^2 =$ _____

48) The number of proper fraction in lowest terms with denominator 10 is _____

49) $\{k, i, n, g, c, a, b\}$ has _____ subsets

*50) The volume of a cube with edge 4.3 is _____

51) $\sqrt{300}$ simplified is _____

52) The probability of getting all odd numbers when rolling a pair of dice is _____

53) $53_7 =$ _____ ₁₀

54) $9 \times 18 + 9 \times 2 =$ _____

55) $38 \times 42 =$ _____

56) If $55_b = 35_{10}$, then $b =$ _____

57) $361 \times 101 =$ _____

58) $\overline{.27} =$ _____ (fraction)

59) $\frac{31}{40} =$ _____ (decimal)

*60) $142857 \times 22 =$ _____

61) $\sqrt{529} =$ _____

62) $24 \times 31 =$ _____

63) The slope of the line $4x - 2y = 8$ is _____

64) $42_{10} =$ _____ ₄

65) $5! =$ _____

66) $\sqrt{(50)(98)} =$ _____

67) $10\frac{3}{8} \times 8\frac{7}{10} =$ _____ (mixed number)

68) If the short leg of a 30 - 60 - 90 triangle measures 8, then the hypotenuse measures _____

69) $(2x + 1)^2 =$ _____

*70) $\sqrt{4500} =$ _____

71) The largest of three consecutive integers whose sum is -39 is _____

72) $\frac{19}{17} \times 19 =$ _____ (mixed number)

73) $21_3 - 2_3 =$ _____ ₃

74) $8^2 + 24^2 =$ _____

75) $7^{-2} =$ _____

76) 15 miles/hour = _____ ft/sec

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

78) $2 \times 5 =$ _____

79) 59° Fahrenheit = _____ $^\circ$ Celsius

*80) $5^6 =$ _____