

1995 - 1996 TMSCA Middle School Number Sense Test # 4

- 1) $123 \times 5 =$ _____
- 2) $2985 + 4998 =$ _____
- 3) $\frac{1}{3}$ of 84 is _____
- 4) $11 \times 97 =$ _____
- 5) XXIX = _____ Arabic Numeral
- 6) $8302 \div 9$ has a remainder of _____
- 7) $93 \times 101 =$ _____
- 8) $16.23 + 8.57 =$ _____
- 9) $232 \times 50 =$ _____
- *10) $97 + 103 + 89 =$ _____
- 11) Simplify: $\frac{26}{65} =$ _____
- 12) $85^2 =$ _____
- 13) $\frac{3}{8} =$ _____ %
- 14) $74 \times 34 =$ _____
- 15) $\frac{1}{3} + \frac{2}{3} + \frac{3}{3} + \frac{4}{3} =$ _____
- 16) 2.3 liters = _____ centiliters
- 17) $14^2 =$ _____
- 18) Write 7.5×10^4 in standard notation. _____
- 19) $15 \times 9 + 5 \times 9 =$ _____
- *20) $8463 \div 19 =$ _____
- 21) 9 is what percent of 180? _____ %
- 22) 54 inches = _____ feet
- 23) $5 - (-3) + (-8) + 6 =$ _____
- 24) Which is smaller, $\frac{2}{7}$ or $\frac{3}{10}$? _____
- 25) $24_5 =$ _____ ₁₀
- 26) $4 + 6 \div 2 =$ _____
- 27) The LCM of 12 and 15 is _____
- 28) An undecagon has _____ sides
- 29) $12\frac{1}{2} \div 2\frac{1}{2} =$ _____
- *30) $468 \times 198 =$ _____
- 31) $\sqrt{289} =$ _____
- 32) If the area of a rectangle is 24 and its length is 10, then its width is _____
- 33) 2 square feet = _____ in²
- 34) 1 hour 6 minutes plus 2 hours 17 minutes is _____ minutes
- 35) If $a = 5$, $b = 10$ and $c = 2$, then $b^2 + ac =$ _____
- 36) $4\frac{3}{8} \times 4\frac{5}{8} =$ _____
- 37) If $\frac{5}{8} = \frac{x}{3}$, then $x =$ _____
- 38) The mean of 92, 98 and 95 is _____
- 39) $32 \times 125 =$ _____
- *40) $35,204 + 18,624 + 98,142 =$ _____
- 41) If a golf ball costs \$2.25, then half a dozen balls cost \$ _____

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42) If $3^2 + x^2 = 5^2$, then $x =$ _____

43) $183 \times 111 =$ _____

44) $\{10, 20, 30, 40, 50\}$ has how many proper subsets? _____

45) $8\frac{5}{6} \times 6 =$ _____

46) $15 \div 4\frac{1}{2} =$ _____

47) $23 \times 42 =$ _____

48) 48 minus 40% of 60 is _____

49) The fourth triangular number is _____

*50) $27 \times 30 \times 33 =$ _____

51) How many positive integer divisors does 16 have? _____

52) $21_{10} =$ _____ ₅

53) The area of a square with diagonal 8 is _____

54) 10 is what percent more than 8? _____

55) $\frac{19}{40} =$ _____ (decimal)

56) If $f(x) = x^3$, then $f(-3) =$ _____

57) Two dice are tossed. What is the probability of getting a sum of 10? _____

58) Find the score of a number sense test if 50 problems were attempted and 45 were correct. _____

59) $27^2 =$ _____

*60) $\sqrt{18989} =$ _____

61) $110001_2 =$ _____ ₈

62) The sum of three consecutive integers is 24. The largest one is _____

63) It takes Payton 3 hours to assemble a bicycle. His father can do it in one hour. How long would it take them if they worked together? _____ hours

64) The slope of the line $y = 3x - 4$ is _____

65) An isosceles trapezoid has how many congruent sides? _____

66) $\frac{a}{5}$ and $\frac{b}{5}$ each have a remainder of 3. The remainder of $\frac{ab}{5}$ is _____

67) The simple interest on \$1200 at 7% for 3 months is \$ _____

68) If $17_b = 15_{10}$, then $b =$ _____

69) The y - coordinate of the midpoint of the line segment between (1, 2) and (3, 9) is _____

*70) $37245 \div 111 =$ _____

71) If 4 a's = 2 b's and 1 b = 8 c's, then 1 a = _____ c's

72) $123 \times 9 + 4 =$ _____

73) $(3x + 2)(x - 5) =$ _____

74) $\sqrt[3]{18} =$ _____

75) The area of a right triangle with sides 6, 8 and 10 is _____

76) $312_4 + 111_4 =$ _____ ₄

77) The slope of the line passing through (0, 2) and (3, 8) is _____

78) The largest prime factor of 19 is _____

79) 2π radians = _____ degrees

*80) $142857 \times 118 =$ _____