

1995 - 1996 TMSCA Middle School Number Sense Test # 1

- 1) $699 + 198 =$ _____
- 2) $364 - 187 =$ _____
- 3) $\frac{37}{6} =$ _____ (mixed number)
- 4) $11 \times 413 =$ _____
- 5) $(6 \times 100) + (3 \times 10) + (2 \times 1) =$ _____
- 6) $86 \times 101 =$ _____
- 7) $86 =$ _____ Roman Numeral
- 8) $25 \times 24 =$ _____
- 9) Simplify: $\frac{4}{52} =$ _____
- *10) $399 + 487 + 195 =$ _____
- 11) $1 + 2 + 3 + \dots + 9 + 10 =$ _____
- 12) $48 \times 42 =$ _____
- 13) $\frac{3}{4} =$ _____ %
- 14) $34 \times 74 =$ _____
- 15) $93 \times 95 =$ _____
- 16) $\frac{3}{8} + \frac{3}{4} =$ _____
- 17) $247 \div 4$ has a remainder of _____
- 18) $19^2 =$ _____
- 19) $\frac{1}{3}$ of 126 = _____
- *20) $198 \times 302 =$ _____
- 21) Which is smaller, $\frac{3}{8}$ or $\frac{5}{13}$? _____
- 22) $-4^2 =$ _____
- 23) 243 cm = _____ meters
- 24) If $2x - 3 = 21$, then $x =$ _____
- 25) 4 quarters, 3 dimes and 6 pennies = _____ ¢
- 26) $12 \div 1\frac{1}{2} =$ _____
- 27) One gallon = _____ ounces
- 28) The GCF of 24 and 36 is _____
- 29) The perimeter of a square with side 13 is _____
- *30) $\sqrt{4879} =$ _____
- 31) $\overline{.15} =$ _____ (fraction)
- 32) $16 + 8 \div 4 + 2 =$ _____
- 33) $5\frac{2}{3} \times 5\frac{1}{3} =$ _____ (mixed number)
- 34) How many different ways can you arrange 4 books on a shelf? _____
- 35) The median of 12, 6, 8, 4 is _____
- 36) $43_6 =$ _____₁₀
- 37) 2 hours 37 minutes minus 1 hour 51 minutes equals _____ minutes
- 38) The next term in the sequence: 2, 3, 5, 8, ... is _____
- 39) The set {T, R, I, G} has how many subsets?

- *40) $15 \times 20 \times 25 =$ _____

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41) If 3 golf balls cost \$5.00, then 2 dozen balls cost \$ _____

42) $213 \div 9 =$ _____ (mixed number)

43) If $a^2 + 16^2 = 20^2$, then $a =$ _____

44) $125 \times 40 =$ _____

45) $11 \times 8 \frac{5}{11} =$ _____

46) 30% of 15 = 10% of _____

47) $25^\circ \text{C} =$ _____ $^\circ\text{F}$

48) $18^2 - 12^2 =$ _____

49) The area of a rhombus with diagonals 4 and 6 is _____

*50) $9^4 =$ _____

51) $32 \times 44 =$ _____

52) $\frac{13}{40} =$ _____ (decimal)

53) If $a = 6$, $b = 4$ and $c = -2$, then $\frac{b}{c} + a =$ _____

54) How many positive integer divisors does 20 have?

55) $6 \frac{1}{4}\% =$ _____ (fraction)

56) The y - coordinate of the y - intercept of $7x + y = 4$ is _____

57) How many diagonals can be drawn from a vertex of an octagon? _____

58) The area of a trapezoid with height 5 and bases 6 and 4 is _____

59) If $f(x) = 2x + 5$, then $f(4) =$ _____

*60) $993 \times 996 =$ _____

61) $12 \times 47 =$ _____

62) A die is tossed, what are the odds of getting a 4? _____

63) $123 \times 9 + 4 =$ _____

64) $10110_2 =$ _____ $_8$

65) $\frac{a}{6}$ and $\frac{b}{6}$ each have a remainder of 5. The remainder of $\frac{ab}{6}$ is _____

66) The simple interest on \$800 at 6% for 6 months is \$ _____

67) $26^2 =$ _____

68) If $24_b = 18_{10}$, then $b =$ _____

69) How many subsets of $\{T, Y, L, E, R\}$ have an even number of elements? _____

*70) $142857 \times 49 =$ _____

71) Bob can paint a car in 6 hours. Dave can do it in 4 hours. How long would it take if they work together? _____ hours

72) How many faces are on a tetrahedron? _____

73) $6 \frac{1}{2} \times 18 =$ _____

74) $\sqrt{50} =$ _____

75) What is the probability of drawing a Jack from a standard deck of 52 cards? _____

76) $101_3 + 22_3 =$ _____ $_3$

77) 15 is what percent more than 10? _____ %

78) $8(8) - 2[2(8)] + 2(2) =$ _____

79) The x - coordinate of the midpoint of the line segment between (3, 7) and (9, 2) is _____

*80) $36752 \div 28 =$ _____