

1997 - 1998 TMSCA Middle School Number Sense Test # 3

- 1)  $68 + 53 =$  \_\_\_\_\_
- 2)  $283 - 194 =$  \_\_\_\_\_
- 3)  $498 \times 11 =$  \_\_\_\_\_
- 4)  $3 \times 997 =$  \_\_\_\_\_
- 5)  $4.8 + 3.2 =$  \_\_\_\_\_
- 6)  $\frac{1}{3}$  of 5 is \_\_\_\_\_
- 7)  $(3 \times 1000) + (2 \times 100) + (7 \times 10) - (3 \times 1) =$   
\_\_\_\_\_
- 8)  $\frac{4}{5} =$  \_\_\_\_\_ %
- 9)  $86 \times 50 =$  \_\_\_\_\_
- \*10)  $3 + 13 + 23 + 33 + 43 =$  \_\_\_\_\_
- 11)  $101 \times 12 =$  \_\_\_\_\_
- 12)  $3612 \div 6 =$  \_\_\_\_\_
- 13)  $427 \div 9$  has a remainder of \_\_\_\_\_
- 14)  $1\frac{1}{2} - \frac{3}{4} =$  \_\_\_\_\_
- 15) CXC = \_\_\_\_\_ Arabic Numeral
- 16)  $4\frac{2}{5}\%$  = \_\_\_\_\_ (fraction)
- 17)  $9 \div 3 + 5 \times 2 =$  \_\_\_\_\_
- 18) The GCF of 12 and 20 is \_\_\_\_\_
- 19)  $\sqrt{196} =$  \_\_\_\_\_
- \*20)  $4\frac{1}{3} \times 6\frac{7}{8} \times 5\frac{1}{2} =$  \_\_\_\_\_
- 21) 100 meters = \_\_\_\_\_ Km
- 22) Which is smaller,  $\frac{3}{8}$  or  $\frac{5}{13}$ ? \_\_\_\_\_
- 23)  $7 \times 27 + 27 \times 3 =$  \_\_\_\_\_
- 24)  $105 \times 109 =$  \_\_\_\_\_
- 25) If  $\frac{1}{2}x + 5 = 10$ , then  $x =$  \_\_\_\_\_
- 26)  $1.6 \times 75 =$  \_\_\_\_\_
- 27) 7 feet = \_\_\_\_\_ yards
- 28)  $63 \times 43 =$  \_\_\_\_\_
- 29) The area of a triangle with base 7 and height 4.2 is \_\_\_\_\_
- \*30)  $\frac{1}{3}$  of 10,387 is \_\_\_\_\_
- 31) The mean of 46, 49, 48 and 45 is \_\_\_\_\_
- 32) The complement of a  $75^\circ$  angle is \_\_\_\_\_  $^\circ$
- 33)  $125 \times 24 =$  \_\_\_\_\_
- 34)  $12_4 =$  \_\_\_\_\_  $_{10}$
- 35)  $111 \times 52 =$  \_\_\_\_\_
- 36)  $52^2 - 42^2 =$  \_\_\_\_\_
- 37)  $95 \times 92 =$  \_\_\_\_\_
- 38)  $\frac{9}{40} =$  \_\_\_\_\_ (decimal)
- 39)  $5\frac{1}{2} \times 78 =$  \_\_\_\_\_
- \*40)  $182000 \div 171 =$  \_\_\_\_\_

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- 41)  $7\frac{5}{7} \times 7\frac{2}{7} =$  \_\_\_\_\_ (mixed number)
- 42) If  $a = 5$  and  $b = 3$ , then  $-a + b =$  \_\_\_\_\_
- 43) One sq. mile = \_\_\_\_\_ acres
- 44)  $3.42 \times 10^{-3} =$  \_\_\_\_\_
- 45) The prime twin of 13 is \_\_\_\_\_
- 46)  $6 \text{ ft} \times 12 \text{ ft} \times 6 \text{ ft} =$  \_\_\_\_\_  $\text{yd}^3$
- 47) A heptagon has \_\_\_\_\_ sides
- 48)  $994 \times 998 =$  \_\_\_\_\_
- 49) If  $\frac{1}{6} + \frac{1}{3} = \frac{1}{x}$ , then  $x =$  \_\_\_\_\_
- \*50)  $\pi^8 =$  \_\_\_\_\_
- 51) If  $x^2 = 5$  and  $x > 0$ , then  $x =$  \_\_\_\_\_
- 52) 2.3 hours = \_\_\_\_\_ minutes
- 53) The area of a square with diagonal 8 is \_\_\_\_\_
- 54)  $\{T, R, A, I, N\}$  has \_\_\_\_\_ subsets
- 55)  $52_{10} =$  \_\_\_\_\_  $_7$
- 56) If  $f(x) = x^3$ , then  $f(-2) =$  \_\_\_\_\_
- 57) The area of a circle with radius 5 is \_\_\_\_\_
- 58) If 5 a's = 2 b's and 3 b's = 10 c's, then 1 a = \_\_\_\_\_ c's
- 59) How many diagonals can be drawn from a vertex of a pentagon? \_\_\_\_\_
- \*60)  $\sqrt{850} =$  \_\_\_\_\_
- 61) The sum of the three angles of an isosceles triangle is \_\_\_\_\_  $^\circ$
- 62) The largest of three consecutive integers whose sum is 30 is \_\_\_\_\_
- 63)  $\sqrt[3]{18} =$  \_\_\_\_\_
- 64)  $.1111\dots =$  \_\_\_\_\_ (fraction)
- 65) If  $35_b = 23_{10}$ , then  $b =$  \_\_\_\_\_
- 66)  $3^5 =$  \_\_\_\_\_
- 67) The total surface area of a cube with diagonal 5 is \_\_\_\_\_
- 68) The sum of the roots of  $x^2 + 6x + 10$  is \_\_\_\_\_
- 69) The slope of the line passing through (1, 2) and (2, 4) is \_\_\_\_\_
- \*70) The volume of a prism with length 9, width 4.8 and height 3.2 is \_\_\_\_\_
- 71) 30 mi/hr = \_\_\_\_\_ ft/sec
- 72)  $180^\circ =$  \_\_\_\_\_ radians
- 73)  $11101_2 =$  \_\_\_\_\_  $_8$
- 74)  $104 \times 97 =$  \_\_\_\_\_
- 75)  $6! \div 4! =$  \_\_\_\_\_
- 76)  $(2x + 1)(x - 2) =$  \_\_\_\_\_
- 77) The measure of an exterior angle of a hexagon is \_\_\_\_\_  $^\circ$
- 78)  $5\frac{1}{5} \times 5\frac{1}{5} =$  \_\_\_\_\_ (mixed number)
- 79) If  $\frac{a}{5}$  and  $\frac{b}{5}$  each have a remainder of 3, then the remainder of  $\frac{ab}{5}$  is \_\_\_\_\_
- \*80)  $17^4 =$  \_\_\_\_\_