

2003 - 2004 TMSCA Middle School Number Sense Test # 5

- 1)  $80\% =$  \_\_\_\_\_ fraction
- 2)  $12^2 =$  \_\_\_\_\_
- 3)  $7 \times 28 =$  \_\_\_\_\_
- 4)  $753 - 357 =$  \_\_\_\_\_
- 5)  $\frac{16}{25} =$  \_\_\_\_\_ %
- 6)  $178 \times 11 =$  \_\_\_\_\_
- 7)  $3.6 =$  \_\_\_\_\_ %
- 8)  $104 \div 13 =$  \_\_\_\_\_
- 9)  $\frac{7}{20} =$  \_\_\_\_\_ decimal
- \*10)  $28 + 38 + 48 + 84 + 83 + 82 =$  \_\_\_\_\_
- 11)  $7.4 + 6.2 - 1.6 =$  \_\_\_\_\_
- 12) MDXIV = \_\_\_\_\_ Arabic number
- 13)  $(5 \times 1000) - (4 \times 100) - (6 \times 10) - (9 \times 1) =$  \_\_\_\_\_
- 14)  $1.82 \times 10^5 =$  \_\_\_\_\_
- 15)  $2463 \div 4$  has a remainder of \_\_\_\_\_
- 16)  $101 \times 6.5 =$  \_\_\_\_\_
- 17) The mean of 76, 74 and 81 is \_\_\_\_\_
- 18) 28 nickels = \$ \_\_\_\_\_
- 19)  $7\frac{3}{7} \times 7 =$  \_\_\_\_\_
- \*20)  $408 \times 207 =$  \_\_\_\_\_
- 21) 7 feet = \_\_\_\_\_ yards
- 22)  $\frac{3}{12} + \frac{2}{8} - \frac{5}{20} =$  \_\_\_\_\_
- 23)  $50 \times 68 =$  \_\_\_\_\_
- 24)  $1\frac{1}{4}\% =$  \_\_\_\_\_ fraction
- 25)  $(-3) \times (-7) \times (-2) =$  \_\_\_\_\_
- 26)  $28 + IV =$  \_\_\_\_\_ Roman numeral
- 27) If a package of 50 golf tees costs \$1.79, then four packages cost \$ \_\_\_\_\_
- 28) The area of a rectangle with length  $\frac{1}{3}$  and width  $\frac{1}{3}$  is \_\_\_\_\_
- 29) If  $\frac{1}{6}a + 5 = 7$ , then  $a =$  \_\_\_\_\_
- \*30)  $13,016 + 21,621 + 9,150 - 682 =$  \_\_\_\_\_
- 31)  $.8 \times 125 =$  \_\_\_\_\_
- 32)  $60 \times 4\frac{1}{3} =$  \_\_\_\_\_
- 33) The LCM of 28 and 70 is \_\_\_\_\_
- 34)  $8\frac{1}{2} \div 3 =$  \_\_\_\_\_
- 35) If  $\frac{x}{9} = \frac{1}{2}$ , then  $x =$  \_\_\_\_\_
- 36)  $98 \times 95 =$  \_\_\_\_\_
- 37) The GCF of 38 and 95 is \_\_\_\_\_
- 38)  $6\frac{3}{8} \times 6\frac{5}{8} =$  \_\_\_\_\_ mixed number
- 39) The cost of driving a truck 240 miles at 30¢ per mile is \$ \_\_\_\_\_
- \*40)  $500 \div 19 =$  \_\_\_\_\_
- 41)  $23_5 =$  \_\_\_\_\_ 10

- 42)  $1 + 3 + 5 + \dots + 13 + 15 =$  \_\_\_\_\_
- 43)  $6\frac{1}{6} \times 6\frac{1}{6} =$  \_\_\_\_\_ mixed number
- 44) {h, o, a, n, g} has \_\_\_\_\_ subsets
- 45) 18% of 9 is 3% of \_\_\_\_\_
- 46)  $17 \times 35 =$  \_\_\_\_\_
- 47) The area of a square with diagonal 2 is \_\_\_\_\_
- 48)  $\frac{7}{40} =$  \_\_\_\_\_ %
- 49)  $.5 - .4 =$  \_\_\_\_\_ fraction
- \*50)  $3.7^5 =$  \_\_\_\_\_
- 51) If  $\frac{1}{5} - \frac{1}{8} = \frac{1}{x}$ , then  $x =$  \_\_\_\_\_
- 52) If  $f(x) = 2x^2 + 6x + 5$ , then  $f(3) =$  \_\_\_\_\_
- 53)  $82^2 - 18^2 =$  \_\_\_\_\_
- 54)  $66\frac{2}{3} \times 51 =$  \_\_\_\_\_
- 55)  $107^2 =$  \_\_\_\_\_
- 56) The largest of 3 consecutive integers whose sum is 66 is \_\_\_\_\_
- 57) Subtracting 17% of a number from the number is the same as multiplying the number by \_\_\_\_\_
- 58)  $36_{10} =$  \_\_\_\_\_ <sub>8</sub>
- 59) The geometric mean between 9 and 4 is \_\_\_\_\_
- \*60)  $143 \times 2\frac{8}{13} =$  \_\_\_\_\_
- 61) The number of positive, proper fractions in lowest terms with denominator 12 is \_\_\_\_\_
- 62)  $111 \times 35 =$  \_\_\_\_\_
- 63) The slope of the line  $2x + y = 5$  is \_\_\_\_\_
- 64) 64 acres = \_\_\_\_\_ sq. miles
- 65)  $\frac{5}{8} + \frac{8}{5} =$  \_\_\_\_\_ mixed number
- 66) If a leg of a 45-45-90 triangle measures 23, then the hypotenuse measures \_\_\_\_\_
- 67)  $\sqrt{20}$  simplified is \_\_\_\_\_
- 68) If  $62_b = 44_{10}$ , then  $b =$  \_\_\_\_\_
- 69) The surface area of a sphere with radius 5 is \_\_\_\_\_
- \*70)  $\sqrt{26,000} =$  \_\_\_\_\_
- 71)  $993 \times 989 =$  \_\_\_\_\_
- 72)  $6^2 + 18^2 =$  \_\_\_\_\_
- 73)  $4\frac{1}{2} \times 2\frac{3}{4} =$  \_\_\_\_\_ mixed number
- 74) The slope of the line passing through (1.5, -1) and (3.5, 2) is \_\_\_\_\_
- 75) 18 is 6% of \_\_\_\_\_
- 76)  $12_4 + 2_4 + 11_4 =$  \_\_\_\_\_ <sub>4</sub>
- 77) The side of a square with diagonal  $5\sqrt{2}$  is \_\_\_\_\_
- 78)  $(m + 6)(m - 6) =$  \_\_\_\_\_
- 79)  $12 \div 3 =$  \_\_\_\_\_
- \*80)  $\sqrt{49} =$  \_\_\_\_\_