

2003 - 2004 TMSCA Middle School Number Sense Test # 3

- 1)  $2 + 4 + 6 + 8 + 10 =$  \_\_\_\_\_
- 2)  $28\% =$  \_\_\_\_\_ fraction
- 3)  $7.6 - 5.1 + 3.5 =$  \_\_\_\_\_
- 4)  $5\frac{1}{2}\% =$  \_\_\_\_\_ decimal
- 5)  $126 \div 14 =$  \_\_\_\_\_
- 6)  $3.8 =$  \_\_\_\_\_ %
- 7)  $60^2 =$  \_\_\_\_\_
- 8)  $86 \times 50 =$  \_\_\_\_\_
- 9)  $5239 \div 13 =$  \_\_\_\_\_
- \*10)  $9 + 19 + 29 + 39 + 49 + 59 =$  \_\_\_\_\_
- 11)  $(5 \times 100) + (7 \times 10) - (4 \times 1) =$  \_\_\_\_\_
- 12)  $\frac{5}{8} + \frac{3}{4} =$  \_\_\_\_\_
- 13) Which is smaller  $\frac{9}{11}$  or  $\frac{5}{6}$ ? \_\_\_\_\_
- 14)  $3(8 + 4 \div 2) =$  \_\_\_\_\_
- 15) 39 nickels = \$ \_\_\_\_\_
- 16)  $417 \div 9$  has a remainder of \_\_\_\_\_
- 17)  $15 \times 14 =$  \_\_\_\_\_
- 18)  $101 \times 86 =$  \_\_\_\_\_
- 19) XCIX = \_\_\_\_\_ Arabic number
- \*20)  $3.7 \times 2.3 \times 5 \times 6.4 =$  \_\_\_\_\_
- 21) .012 kilograms = \_\_\_\_\_ grams
- 22)  $24 \times 12.5 =$  \_\_\_\_\_
- 23)  $12 \times 4\frac{5}{12} =$  \_\_\_\_\_
- 24)  $36 \times 75 =$  \_\_\_\_\_
- 25) The median of 18, 13, 19 and 23 is \_\_\_\_\_
- 26)  $(-32) \div 8 =$  \_\_\_\_\_
- 27) 210 has \_\_\_\_\_ prime factors
- 28)  $\frac{2}{6} + \frac{5}{15} + \frac{4}{12} + \frac{1}{3} =$  \_\_\_\_\_
- 29) If  $\frac{3}{x} = \frac{7}{9}$ , then  $x =$  \_\_\_\_\_
- \*30)  $1000 \div 17 =$  \_\_\_\_\_
- 31)  $76 \times 74 =$  \_\_\_\_\_
- 32) The circumference of a circle with radius 3.5 is \_\_\_\_\_
- 33) If  $2(m + 7) = 32$ , then  $m =$  \_\_\_\_\_
- 34) The cost of driving a car 148 miles at 20¢ per mile is \$ \_\_\_\_\_
- 35) The side of a rhombus with perimeter 10 is \_\_\_\_\_
- 36)  $108 \times 108 =$  \_\_\_\_\_
- 37)  $31_6 =$  \_\_\_\_\_ 10
- 38) If a golf cart rental costs \$9.86, then one half of a rental costs \$ \_\_\_\_\_
- 39)  $77 \times 37 =$  \_\_\_\_\_
- \*40)  $194 \times 294 =$  \_\_\_\_\_
- 41)  $92 \times 97 =$  \_\_\_\_\_
- 42)  $41^\circ$  Fahrenheit = \_\_\_\_\_  $^\circ$ Celsius
- 43)  $2 + 4 + 6 + \dots + 18 + 20 =$  \_\_\_\_\_

- 44)  $8\frac{2}{5} \times 2\frac{2}{5} =$  \_\_\_\_\_ mixed number
- 45) 14% of 44 is 28% of \_\_\_\_\_
- 46)  $101 \times 423 =$  \_\_\_\_\_
- 47)  $38 \times 13 =$  \_\_\_\_\_
- 48) The sum of the supplement and the complement of a  $78^\circ$  angle is \_\_\_\_\_ $^\circ$
- 49)  $\{j, o, n, e, s\} \cup \{j, o, h, n\}$  has \_\_\_\_\_ elements
- \*50) 37% of 5250 = \_\_\_\_\_
- 51) If  $\frac{1}{10} + \frac{1}{15} = \frac{1}{x}$ , then  $x =$  \_\_\_\_\_
- 52) The smallest of 4 consecutive integers whose sum is 54 is \_\_\_\_\_
- 53) Adding 28% of a number to the number is the same as multiplying the number by \_\_\_\_\_
- 54) If  $f(x) = \frac{1}{x}$ , then  $f(.25) =$  \_\_\_\_\_
- 55)  $\frac{9}{40} =$  \_\_\_\_\_ decimal
- 56)  $\frac{1}{3}$  gallon = \_\_\_\_\_  $\text{in}^3$
- 57) The area of a square with diagonal 10 is \_\_\_\_\_
- 58)  $121_3 =$  \_\_\_\_\_  $_{10}$
- 59)  $9^2 + 18^2 =$  \_\_\_\_\_
- \*60)  $3^{10} =$  \_\_\_\_\_
- 61) 20 is \_\_\_\_\_ % less than 25
- 62) The geometric mean between 5 and 20 is \_\_\_\_\_
- 63) If the long leg of a 30-60-90 triangle measures  $10\sqrt{3}$ , then the hypotenuse measures \_\_\_\_\_
- 64)  $66\frac{2}{3} \times 39 =$  \_\_\_\_\_
- 65)  $995 \times 998 =$  \_\_\_\_\_
- 66)  $\frac{3}{8} + \frac{8}{3} =$  \_\_\_\_\_ mixed number
- 67) The slope of the line  $y = -x + 7$  is \_\_\_\_\_
- 68)  $36_{10} =$  \_\_\_\_\_  $_7$
- 69)  $(2x - 3)(x + 1) =$  \_\_\_\_\_
- \*70)  $142857 \times 41 =$  \_\_\_\_\_
- 71) The surface area of a cube with inner diagonal  $\sqrt{6}$  is \_\_\_\_\_
- 72)  $\frac{14}{15} \times 14 =$  \_\_\_\_\_
- 73)  $3367 \times 3 =$  \_\_\_\_\_
- 74) If  $7^n = 16,807$ , then  $n =$  \_\_\_\_\_
- 75)  $4! =$  \_\_\_\_\_
- 76)  $5\frac{1}{3} \times 6\frac{1}{5} =$  \_\_\_\_\_ mixed number
- 77) If  $(0, b)$  is the y-intercept of the line  $2x + y = -5$ , then  $b =$  \_\_\_\_\_
- 78) If  $53_b = 33_{10}$ , then  $b =$  \_\_\_\_\_
- 79) The surface area of a rectangular prism with length 2, width 2, and height 3 is \_\_\_\_\_
- \*80)  $\sqrt{61,000} =$  \_\_\_\_\_