

2003 - 2004 TMSCA Middle School Number Sense Test # 6

- 1)  $30\% =$  \_\_\_\_\_ fraction
- 2)  $8 \times 24 =$  \_\_\_\_\_
- 3)  $636363 \div 7 =$  \_\_\_\_\_
- 4)  $11 \times 242 =$  \_\_\_\_\_
- 5)  $13 + 9 + 7 + 4 + 1 =$  \_\_\_\_\_
- 6)  $1.6\% =$  \_\_\_\_\_ decimal
- 7)  $17^2 =$  \_\_\_\_\_
- 8)  $9 + 6 \times 3 =$  \_\_\_\_\_
- 9)  $(8 \times 1000) + (5 \times 10) + (6 \times 100) + (8 \times 1) =$  \_\_\_\_\_
- \*10)  $21,621 - 8,861 + 2,911 - 15 =$  \_\_\_\_\_
- 11)  $742 - 167 =$  \_\_\_\_\_
- 12)  $3.82 \times 10^{-2} =$  \_\_\_\_\_
- 13) Which is smaller  $\frac{2}{3}$  or  $0.66$ ? \_\_\_\_\_
- 14)  $7\frac{1}{2} \times 101 =$  \_\_\_\_\_
- 15)  $364 =$  \_\_\_\_\_ Roman numeral
- 16) The range of 26, 19, 25 and 19 is \_\_\_\_\_
- 17)  $1\frac{1}{3} - \frac{5}{6} =$  \_\_\_\_\_
- 18)  $25^2 =$  \_\_\_\_\_
- 19) 76 nickels = \$ \_\_\_\_\_
- \*20)  $96 \times 394 =$  \_\_\_\_\_
- 21) The LCM of 9 and 51 is \_\_\_\_\_
- 22)  $25 \times 4.8 =$  \_\_\_\_\_
- 23)  $9\frac{3}{4} \times 4 =$  \_\_\_\_\_
- 24)  $6\text{cm} + 14\text{mm} =$  \_\_\_\_\_ cm
- 25)  $X + IX + XI + I =$  \_\_\_\_\_ Arabic number
- 26)  $1.25 \times 20 =$  \_\_\_\_\_
- 27)  $45 \div 1.5 =$  \_\_\_\_\_
- 28) If a package of three golf balls costs \$5.67, then one golf ball costs \$ \_\_\_\_\_
- 29) The area of a square with perimeter 32 is \_\_\_\_\_
- \*30)  $5\frac{1}{8} \times 3\frac{2}{3} \times 6\frac{3}{5} \times 2 =$  \_\_\_\_\_
- 31) If  $7m - 4 = 52$ , then  $m =$  \_\_\_\_\_
- 32) The complement of a  $7^\circ$  angle is \_\_\_\_\_  $^\circ$
- 33)  $107 \times 104 =$  \_\_\_\_\_
- 34)  $21 \times 6\frac{1}{3} =$  \_\_\_\_\_
- 35)  $44 \times 46 =$  \_\_\_\_\_
- 36) The diameter of a circle with area  $64\pi$  is \_\_\_\_\_
- 37)  $94 \times 92 =$  \_\_\_\_\_
- 38)  $1\frac{4}{5} \times 4\frac{4}{5} =$  \_\_\_\_\_ mixed number
- 39)  $35_8 =$  \_\_\_\_\_ 10
- \*40)  $\sqrt{15,000} =$  \_\_\_\_\_
- 41)  $32 \times 72 =$  \_\_\_\_\_
- 42) 22% of 14 is 2% of \_\_\_\_\_
- 43)  $17^2 - 13^2 =$  \_\_\_\_\_
- 44) 24 is what % less than 36? \_\_\_\_\_ %

- 45)  $\sqrt{15} =$  \_\_\_\_\_ fraction
- 46)  $43 \times 18 - 23 \times 18 =$  \_\_\_\_\_
- 47)  $1 + 2 + 3 + \dots + 99 + 100 =$  \_\_\_\_\_
- 48) The area of a square with diagonal 5 is \_\_\_\_\_
- 49)  $\{t, o, d\}$  has \_\_\_\_\_ elements
- \*50) 13% of 3,019 = \_\_\_\_\_
- 51)  $16\frac{2}{3} \times 36 =$  \_\_\_\_\_
- 52) 20 is one and one-fourth of \_\_\_\_\_
- 53)  $13_{10} =$  \_\_\_\_\_  $_4$
- 54)  $\frac{17}{40} =$  \_\_\_\_\_ decimal
- 55) The product of the LCM and the GCF of 7 and 22 is \_\_\_\_\_
- 56) If  $f(x) = x^3 + x$ , then  $f(-2) =$  \_\_\_\_\_
- 57)  $\frac{1}{11}$  gallon = \_\_\_\_\_  $\text{in}^3$
- 58)  $51 \times 23 =$  \_\_\_\_\_
- 59)  $213_4 =$  \_\_\_\_\_  $_{10}$
- \*60)  $5.6^4 =$  \_\_\_\_\_
- 61)  $5! - 1! =$  \_\_\_\_\_
- 62)  $\frac{13}{12} \times 13 =$  \_\_\_\_\_ mixed number
- 63) The geometric mean between 45 and 5 is \_\_\_\_\_
- 64)  $15 \times 3367 =$  \_\_\_\_\_
- 65)  $7^2 + 21^2 =$  \_\_\_\_\_
- 66) The slope of the line  $y - x = 12$  is \_\_\_\_\_
- 67)  $\frac{2}{3} + \frac{3}{2} =$  \_\_\_\_\_ mixed number
- 68) If the long leg of a 30-60-90 triangle measures  $8\sqrt{3}$ , then the short leg measures \_\_\_\_\_
- 69)  $(3a - 1)^2 =$  \_\_\_\_\_
- \*70)  $6 \times 142857 =$  \_\_\_\_\_
- 71)  $992 \times 994 =$  \_\_\_\_\_
- 72) 30 miles/hour = \_\_\_\_\_ feet/second
- 73)  $\sqrt{1849} =$  \_\_\_\_\_
- 74) The surface area of a cube with inner diagonal  $2\sqrt{2}$  is \_\_\_\_\_
- 75)  $2\frac{3}{4} \times 8\frac{1}{2} =$  \_\_\_\_\_ mixed number
- 76) If  $9^n = 6561$ , then  $n =$  \_\_\_\_\_
- 77)  $52_6 - 34_6 =$  \_\_\_\_\_  $_6$
- 78) The surface area of a rectangular prism with length 5, width 10, and height 2 is \_\_\_\_\_
- 79)  $9 + 1 =$  \_\_\_\_\_
- \*80)  $17 + 36 + 49 - 10 =$  \_\_\_\_\_