

1999 - 2000 TMSCA Middle School Number Sense Test # 4

- 1)  $11 \times 271 =$  \_\_\_\_\_
- 2)  $6.47 + 3.03 =$  \_\_\_\_\_
- 3)  $248 + 842 =$  \_\_\_\_\_
- 4)  $4.21 \times 10^{-3} =$  \_\_\_\_\_
- 5)  $15\% =$  \_\_\_\_\_ (fraction)
- 6)  $7 \times 1000 + 8 \times 10 + 4 \times 1 =$  \_\_\_\_\_
- 7)  $\frac{3}{12} + \frac{4}{16} + \frac{5}{20} + \frac{6}{24} =$  \_\_\_\_\_
- 8)  $5 \times 2^3 \div 4 =$  \_\_\_\_\_
- 9)  $25 =$  \_\_\_\_\_ Roman Numeral
- \*10)  $488 \times 103 =$  \_\_\_\_\_
- 11)  $6 \times 3 \times 0 \times 2 \times 1 =$  \_\_\_\_\_
- 12)  $7 \div 3\frac{1}{3} =$  \_\_\_\_\_
- 13)  $\frac{3}{8} =$  \_\_\_\_\_ (decimal)
- 14)  $55^2 =$  \_\_\_\_\_
- 15) Which is smaller  $\frac{2}{3}$  or  $\frac{7}{10}$ ? \_\_\_\_\_
- 16)  $2\frac{3}{4} \div \frac{1}{4} =$  \_\_\_\_\_
- 17)  $25 \times 1.6 =$  \_\_\_\_\_
- 18) The mean of 99, 97, 95 and 97 is \_\_\_\_\_
- 19)  $13^2 =$  \_\_\_\_\_ Arabic Numeral
- \*20)  $848 + 484 + 262 + 626 =$  \_\_\_\_\_
- 21)  $\sqrt{324} =$  \_\_\_\_\_
- 22)  $64 \times 66 =$  \_\_\_\_\_
- 23) 3 grams - 82 milligrams = \_\_\_\_\_ grams
- 24)  $158 \div 9 =$  \_\_\_\_\_ (mixed number)
- 25)  $4\frac{5}{9} \times 9 =$  \_\_\_\_\_
- 26)  $993 + 994 =$  \_\_\_\_\_
- 27) If  $\frac{x}{4} = \frac{7}{5}$ , then  $x =$  \_\_\_\_\_
- 28)  $32 \times 46 =$  \_\_\_\_\_
- 29)  $-3 \times 6 + 4 =$  \_\_\_\_\_
- \*30)  $6\frac{1}{2} \times 4.2 \times 3\frac{3}{4} \times 1.9 =$  \_\_\_\_\_
- 31) The area of a rhombus with diagonals 6 and 9 is \_\_\_\_\_
- 32) If  $a = 2$  and  $b = 6$ , then  $a^b =$  \_\_\_\_\_
- 33)  $97^2 =$  \_\_\_\_\_
- 34) The prime twin of 31 is \_\_\_\_\_
- 35) If 2 dozen pencils cost \$1.92, then 4 pencils cost \$ \_\_\_\_\_
- 36) 45 nickels = \$ \_\_\_\_\_
- 37) The LCM of 24 and 9 is \_\_\_\_\_
- 38)  $111 \times 234 =$  \_\_\_\_\_
- 39)  $29 \times 89 =$  \_\_\_\_\_
- \*40)  $\sqrt{26,000} =$  \_\_\_\_\_
- 41)  $25_8 =$  \_\_\_\_\_

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- 42) Which is prime 47 or 49? \_\_\_\_\_
- 43)  $101 \times 314 =$  \_\_\_\_\_
- 44) The simple interest on \$2000 at 6% interest for 2 years is \$ \_\_\_\_\_
- 45)  $\{G, O, L, F\} \cup \{C, L, U, B\}$  has \_\_\_ elements
- 46)  $\sqrt{961} =$  \_\_\_\_\_
- 47) If  $\frac{1}{5} + \frac{1}{5} = \frac{1}{x}$ , then  $x =$  \_\_\_\_\_
- 48)  $-8^2 =$  \_\_\_\_\_
- 49)  $5 \text{ ft} \times 6 \text{ ft} \times 9 \text{ ft} =$  \_\_\_\_\_  $\text{yds}^3$
- \*50)  $5\frac{4}{9} \times 429 \times 9 =$  \_\_\_\_\_
- 51) The area of a square with diagonal 7 is \_\_\_\_\_
- 52)  $4^2 + 12^2 =$  \_\_\_\_\_
- 53)  $24 \times 16\frac{2}{3} =$  \_\_\_\_\_
- 54)  $24_{10} =$  \_\_\_\_\_ <sub>7</sub>
- 55) The 4<sup>th</sup> triangular number is \_\_\_\_\_
- 56) The difference between the supplement and the complement of a 70° angle is \_\_\_\_\_
- 57)  $\frac{7}{40} =$  \_\_\_\_\_ (decimal)
- 58) One square mile = \_\_\_\_\_ acres
- 59) 12 is 4% of \_\_\_\_\_
- \*60)  $142857 \times 54 =$  \_\_\_\_\_
- 61)  $32 \times 12\frac{1}{2} =$  \_\_\_\_\_
- 62)  $\sqrt{12\frac{1}{4}} =$  \_\_\_\_\_
- 63)  $5\frac{1}{5} \times 10\frac{1}{5} =$  \_\_\_\_\_ (mixed number)
- 64)  $\frac{1}{3}$  gallon = \_\_\_\_\_  $\text{in}^3$
- 65) The diagonal of a square with side 19 is \_\_\_\_\_
- 66)  $12345 \times 9 + 6 =$  \_\_\_\_\_
- 67) If  $f(x) = \frac{1}{2}x + \frac{1}{2}$ , the  $f(4) =$  \_\_\_\_\_
- 68)  $\sqrt{72} =$  \_\_\_\_\_
- 69)  $998 \times 993 =$  \_\_\_\_\_
- \*70)  $\pi^8 =$  \_\_\_\_\_
- 71) The slope of the line passing through (4, 1) and (8, 3) is \_\_\_\_\_
- 72) If  $25_b = 21_{10}$ , then  $b =$  \_\_\_\_\_
- 73) The surface area of a sphere with radius 5 is \_\_\_\_\_
- 74)  $6^{-2} =$  \_\_\_\_\_
- 75)  $(x + 2)(x - 5) =$  \_\_\_\_\_
- 76)  $11010_2 =$  \_\_\_\_\_ <sub>4</sub>
- 77)  $31_5 - 24_5 =$  \_\_\_\_\_ <sub>5</sub>
- 78) The measure of an exterior angle of a pentagon is \_\_\_\_\_ °
- 79) The probability of rolling a number  $\leq 4$  with one die is \_\_\_\_\_
- \*80) The volume of a cylinder with radius 3 and height 7 is \_\_\_\_\_