

1999 - 2000 TMSCA Middle School Number Sense Test # 1

- 1)  $48 + 58 + 12 =$  \_\_\_\_\_
- 2)  $30\% =$  \_\_\_\_\_ (fraction)
- 3)  $5 \times 1000 + 3 \times 100 + 7 \times 10 + 3 \times 1 =$  \_\_\_\_\_
- 4) CIX = \_\_\_\_\_ Arabic Numeral
- 5)  $25^2 =$  \_\_\_\_\_
- 6)  $14.86 - 11.96 =$  \_\_\_\_\_ (decimal)
- 7)  $\frac{7}{8} - \frac{1}{4} =$  \_\_\_\_\_ (fraction)
- 8)  $101 \times 73 =$  \_\_\_\_\_
- 9)  $16 \div 4 + 4 =$  \_\_\_\_\_
- \*10)  $76,841 + 19,213 + 1408 =$  \_\_\_\_\_
- 11)  $997 + 995 =$  \_\_\_\_\_
- 12)  $\frac{7}{25} =$  \_\_\_\_\_ %
- 13)  $25 \times 48 =$  \_\_\_\_\_
- 14)  $24 =$  \_\_\_\_\_ Roman Numeral
- 15) The mean of 17, 11 and 14 is \_\_\_\_\_
- 16)  $98 \times 93 =$  \_\_\_\_\_
- 17) Which is smaller  $\frac{3}{8}$  or  $\frac{4}{11}$ ? \_\_\_\_\_
- 18)  $18 \div 1\frac{1}{2} =$  \_\_\_\_\_
- 19)  $4.23 \times 10^3 =$  \_\_\_\_\_
- \*20)  $421 \times 397 =$  \_\_\_\_\_
- 21)  $2\frac{1}{4}$  hours = \_\_\_\_\_ minutes
- 22) The reciprocal of  $2\frac{3}{7}$  is \_\_\_\_\_
- 23)  $58 \times 52 =$  \_\_\_\_\_
- 24)  $13 \times 6 + 13 \times 14 =$  \_\_\_\_\_
- 25)  $107 \times 104 =$  \_\_\_\_\_
- 26)  $247 \div 9 =$  \_\_\_\_\_ (mixed number)
- 27) The area of a rectangle with length 8 and width  $\frac{3}{4}$  is \_\_\_\_\_
- 28)  $0 \times 1 \times 2 \times 3 \times 4 =$  \_\_\_\_\_
- 29) The LCM of 8 and 18 is \_\_\_\_\_
- \*30)  $6464 \div 13 =$  \_\_\_\_\_
- 31) If  $2x + 7 = 5$ , then  $x =$  \_\_\_\_\_
- 32)  $23 \times 32 =$  \_\_\_\_\_
- 33) If 4 bags of golf tees cost \$3.60, then 7 bags cost \$ \_\_\_\_\_
- 34)  $6\frac{2}{5} \times 6\frac{3}{5} =$  \_\_\_\_\_ (mixed number)
- 35) 37 nickels = \$ \_\_\_\_\_
- 36)  $-5 - 10 + 2 =$  \_\_\_\_\_
- 37)  $111 \times 423 =$  \_\_\_\_\_
- 38) 19 milliliters = \_\_\_\_\_ liters
- 39)  $43 \times 63 =$  \_\_\_\_\_
- \*40)  $\sqrt{83,000} =$  \_\_\_\_\_
- 41) The smallest palindrome larger than 102 is \_\_\_\_\_
- 42)  $16_8 =$  \_\_\_\_\_

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- 43) {I, R, O, N} has \_\_\_\_\_ elements
- 44)  $1 + 2 + 3 + \dots + 19 + 20 =$  \_\_\_\_\_
- 45) The complement of a  $37^\circ$  angle is \_\_\_\_\_  $^\circ$
- 46)  $-6^2 =$  \_\_\_\_\_
- 47) If  $\frac{1}{8} + \frac{1}{6} = \frac{1}{x}$ , then  $x =$  \_\_\_\_\_
- 48) The sum of the complement and the supplement of a  $50^\circ$  angle is \_\_\_\_\_  $^\circ$
- 49)  $17_{10} =$  \_\_\_\_\_  $_4$
- \*50)  $7\frac{3}{8} \times 603 \times 8 =$  \_\_\_\_\_
- 51) The area of a right triangle with sides 8, 15 and 17 is \_\_\_\_\_
- 52)  $\sqrt[1]{\frac{11}{25}} =$  \_\_\_\_\_
- 53)  $3 \text{ ft} \times 6 \text{ ft} \times 6 \text{ ft} =$  \_\_\_\_\_  $\text{yds}^3$
- 54) The next term of the sequence -1, 3, 7, ... is \_\_\_\_\_
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- 55)  $111^2 =$  \_\_\_\_\_
- 56)  $16 \times 125 =$  \_\_\_\_\_
- 57)  $8^2 + 16^2 =$  \_\_\_\_\_
- 58) 9 is 3% of \_\_\_\_\_
- 59) The area of a circle with diameter 18 is \_\_\_\_\_
- \*60) The volume of a sphere with radius 5 is \_\_\_\_\_
- 61) One sq. mile = \_\_\_\_\_ acres
- 62) If 4a's = 3 b's and 5 b's = 7 c's, then 1a = \_\_\_\_\_ c's
- 63) The diagonal of a square with side 2 is \_\_\_\_\_
- 64) If  $f(x) = x^2 - 3$ , then  $f(5) =$  \_\_\_\_\_
- 65)  $3\frac{1}{3} \times 6\frac{1}{3} =$  \_\_\_\_\_ (mixed number)
- 66) The slope of the line containing the points (4, 7) and (-1, 12) is \_\_\_\_\_
- 67) If  $14_b = 11_{10}$ , then  $b =$  \_\_\_\_\_
- 68)  $\bar{3} =$  \_\_\_\_\_ (fraction)
- 69)  $(\sqrt{3})^2 =$  \_\_\_\_\_
- \*70)  $4^5 =$  \_\_\_\_\_
- 71) The probability of getting a sum  $\geq 10$  when rolling a pair of dice is \_\_\_\_\_
- 72) The volume of a cube with edge 6 is \_\_\_\_\_
- 73)  $\pi$  radians = \_\_\_\_\_ degrees
- 74)  $11011_2 =$  \_\_\_\_\_  $_4$
- 75)  $1234 \times 9 + 5 =$  \_\_\_\_\_
- 76)  $25^{\frac{1}{2}} =$  \_\_\_\_\_
- 77) The measure of an interior angle of a regular hexagon is \_\_\_\_\_  $^\circ$
- 78)  $34_5 + 14_5 =$  \_\_\_\_\_  $_5$
- 79)  $(x + 3)(x - 4) =$  \_\_\_\_\_
- \*80)  $\pi^6 =$  \_\_\_\_\_