

1996 - 1997 TMSCA Middle School Number Sense Test # 1

- 1)  $8^2 =$  \_\_\_\_\_
- 2)  $1999 + 2998 =$  \_\_\_\_\_
- 3)  $172 - 106 =$  \_\_\_\_\_
- 4)  $1818 \div 6 =$  \_\_\_\_\_
- 5)  $15 \times 25 =$  \_\_\_\_\_
- 6)  $17.3 + 1.7 + 6 =$  \_\_\_\_\_
- 7)  $326 \times 11 =$  \_\_\_\_\_
- 8) Round 36.81 to the nearest ten. \_\_\_\_\_
- 9)  $20\% =$  \_\_\_\_\_ (fraction)
- \*10)  $36,402 + 18,011 + 7,281 =$  \_\_\_\_\_
- 11)  $(4 \times 1000) + (2 \times 100) + (12 \times 1) =$  \_\_\_\_\_
- 12)  $50 \times 48 =$  \_\_\_\_\_
- 13)  $136 =$  \_\_\_\_\_ Roman Numeral
- 14) How many even numbers are between 12 and 37? \_\_\_\_\_
- 15)  $45^2 =$  \_\_\_\_\_
- 16)  $147 \div 9$  has a remainder of \_\_\_\_\_
- 17) Which is smaller,  $\frac{7}{8}$  or  $\frac{9}{11}$ ? \_\_\_\_\_
- 18)  $\sqrt{121} =$  \_\_\_\_\_
- 19)  $83 \times 101 =$  \_\_\_\_\_
- \*20)  $450 + 39 \times 19 =$  \_\_\_\_\_
- 21)  $\frac{1}{5} + \frac{1}{3} =$  \_\_\_\_\_
- 22) 2.82 meters = \_\_\_\_\_ mm
- 23)  $17 \div 1\frac{1}{2} =$  \_\_\_\_\_
- 24) The additive inverse of -6 is \_\_\_\_\_
- 25)  $97 \times 92 =$  \_\_\_\_\_
- 26)  $8 \times 4\frac{3}{8} =$  \_\_\_\_\_
- 27)  $1 + 2 + 3 + \dots + 16 + 17 =$  \_\_\_\_\_
- 28) The complement of a  $17^\circ$  angle is \_\_\_\_\_  $^\circ$
- 29)  $18^2 - 12^2 =$  \_\_\_\_\_
- \*30)  $6\frac{1}{2} + 8\frac{7}{8} + 9\frac{1}{4} + 10\frac{3}{8} =$  \_\_\_\_\_
- 31)  $146 \div 9 =$  \_\_\_\_\_ (mixed number)
- 32)  $102 \times 108 =$  \_\_\_\_\_
- 33)  $14_5 =$  \_\_\_\_\_  $_{10}$
- 34)  $17 \times 97 =$  \_\_\_\_\_
- 35)  $\overline{.39} =$  \_\_\_\_\_ (fraction)
- 36)  $623 \times 111 =$  \_\_\_\_\_
- 37) The area of a square with side 6 is \_\_\_\_\_
- 38)  $\frac{13}{40} =$  \_\_\_\_\_ (decimal)
- 39)  $5\frac{2}{3} \times 5\frac{1}{3} =$  \_\_\_\_\_ (mixed number)
- \*40)  $38712 \div 262 =$  \_\_\_\_\_
- 41)  $(-1)(-2)(-3) =$  \_\_\_\_\_
- 42) {R, A, M} has how many subsets? \_\_\_\_\_

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- 43) What number is halfway between 6 and -8?  
\_\_\_\_\_
- 44) One square mile = \_\_\_\_\_ acres
- 45) If  $f(x) = 2x^2$ , then  $f(-2) =$  \_\_\_\_\_
- 46) The next term of 0, 1, 8, 27, ... is \_\_\_\_\_
- 47)  $12 \times 9 + 3 =$  \_\_\_\_\_
- 48)  $4\frac{1}{3} \times 5\frac{1}{3} =$  \_\_\_\_\_ (mixed number)
- 49) The area of a square with diagonal 4 is \_\_\_\_\_
- \*50)  $84 \times 22 - 42 \times 21 =$  \_\_\_\_\_
- 51)  $.2\bar{7} =$  \_\_\_\_\_ (fraction)
- 52) The simple interest on \$4000 at 5% for 6 months is \$ \_\_\_\_\_
- 53)  $4! =$  \_\_\_\_\_
- 54) 30% of 16 is 10% of \_\_\_\_\_
- 55)  $(3 \times 8 + 14) \div 5$  has a remainder of \_\_\_\_\_
- 56) The product of the LCM and the GCF of 16 and 20 is \_\_\_\_\_
- 57) The number 104 has how many distinct prime factors? \_\_\_\_\_
- 58)  $101 \times 243 =$  \_\_\_\_\_
- 59) How many diagonals can be drawn from a vertex of a pentagon? \_\_\_\_\_
- \*60)  $\sqrt{2690} =$  \_\_\_\_\_
- 61) If 3 tennis balls cost \$2.10, then 2 dozen balls cost \$ \_\_\_\_\_
- 62) What number times 4 and added to 5 gives the same result? \_\_\_\_\_
- 63) The slope of  $y = 5x + 7$  is \_\_\_\_\_
- 64) 88 ft / sec = \_\_\_\_\_ mi/hr
- 65) Find the x-coordinate of the midpoint of the line segment between (4,7) and (6,9). \_\_\_\_\_
- 66)  $101101_2 =$  \_\_\_\_\_ <sub>8</sub>
- 67) If  $a = 2$ ,  $b = -4$  and  $c = 8$ , then  $\frac{c}{ab} =$  \_\_\_\_\_
- 68)  $\sqrt[3]{8} =$  \_\_\_\_\_
- 69) Find the smallest of three consecutive integers whose sum is 66. \_\_\_\_\_
- \*70)  $142857 \times 62 =$  \_\_\_\_\_
- 71) 4 is 5% of \_\_\_\_\_
- 72)  $(x + 3)(x - 2) =$  \_\_\_\_\_
- 73) The surface area of a cube with interior diagonal 8 is \_\_\_\_\_
- 74) If  $x = 2$ , then  $x^2 + 6x + 9 =$  \_\_\_\_\_
- 75)  $995^2 =$  \_\_\_\_\_
- 76)  $180^\circ =$  \_\_\_\_\_ radians
- 77)  $2 + 2 =$  \_\_\_\_\_
- 78)  $4 + 6^{-1} =$  \_\_\_\_\_
- 79) Find the number of proper fractions in lowest terms with a denominator of 8. \_\_\_\_\_
- \*80)  $\pi^6 =$  \_\_\_\_\_