Middle School Number Sense Exam 007, 7/25/2017

(1) $96 \times 50 =$ _____

(2) $5^2 =$ _____ (Roman Numeral)

(3) $682 =$ _____ (Roman Numeral)

(4) $17.4 \times 101 =$ _____

(5) $1.51 =$ _____ %

(6) $6 \times 3996 =$ _____

(7) $(7 \times 100) + (6 \times 10) + (3 \times 10^2) =$ _____

(8) $50 \times 604 =$ _____

(9) $(4 \times 1000) + (3 \times 10) + (5 \times 100) =$ _____

*(10) $3635 - 746 + 1728 =$ _____

(11) 2 sq. ft. = _____ sq. in.

(12) $2009 =$ _____ (Roman Numeral)

(13) $1 + 3 + 5 + 2 + 4 + 6 =$ _____

(14) 18 minutes = _____ hours

(15) $19019 \div 19 =$ _____

(16) $9 + 3(6 - 4) =$ _____

(17) $5\frac{2}{5} - 2\frac{4}{5} =$ _____ (mixed number)

(18) $88 \times 82 =$ _____

(19) $25 \times 8 \times 14 =$ _____

*(20) $286 + 77 + 2143 + 9 - 247 =$ _____

(21) $25 \times 18 =$ _____

(22) The mean of $71, 71, 75, 73,$ and 70 is _____

(23) The median of $4, 16, -2, 6, -6, 7$ is _____

(24) If the area of a circle with circumference 7π cm is $a\pi$ sq. cm., then $a =$ _____

(25) 7 nickels, 3 quarters, and 29 pennies = _____ cents

(26) $12 \times 12.5 =$ _____

(27) $21 + (-18) \div 3 =$ _____

(28) $104 \times 108 =$ _____

(29) $-8 + 6 - 7 =$ _____

*(30) $7.4 \times 3.9 \times 2.8 \div .2 =$ _____

(31) The range of $-1, 0, -6, 4, 0, -2,$ and 13 is _____

(32) If 4 peaches cost \$0.76, then one dozen peaches costs \$ _____

(33) $\sqrt{1444} =$ _____

(34) $109 \times 110 =$ _____

(35) $37\frac{1}{2}\%$ of 160 is _____

(36) $65 \times 45 =$ _____

(37) What % of 90 is 27? _____

(38) The median of $7, 10, 18, 6,$ and 3 is _____

(39) If the circumference of a circle with area 64π cm^2 is $a\pi$ cm., then $a =$ _____

*(40) $6\frac{1}{3} \times 8651 \div 19 =$ _____

(41) $43 \times 19 - 16 \times 43 =$ _____

(42) $15 \times 17 + 15 \times 13 =$ _____

(43) 2.4 hours = _____ minutes

(44) 7 ft $\times$ 9 ft $\times$ 5 ft = _____ cubic yards

(45) $27 \times 87 =$ _____

(46) $9^2 + 27^2 =$ _____

(47) The LCM of 35 and 15 is _____

(48) $21 \times 143 =$ _____

(49) $16\dfrac{2}{3} \times 300 =$ _____

*(50) 16% of 3141 is _____

(51) $41^2 \div 7$ has a remainder of _____

(52) The simple interest on \$2400 at 3% interest for 8 months is \$ _____

(53) If $4\sqrt{x+3} = 20$, then $x =$ _____

(54) The number of proper fractions in lowest terms with denominator 11 is _____

(55) $1003 \times 1013 =$ _____

(56) 77 cubic inches = _____ gallons

(57) $6^2 + 12^2 =$ _____

(58) $3367 \times 54 =$ _____

(59) $50°$ Fahrenheit = _____ ° Celsius

*(60) $21 \times 285714 =$ _____

(61) 2 cubic yards = _____ cubic ft.

(62) If $(n + 11)^2 = n^2 + an + 121$, then $a =$ _____

(63) $\dfrac{4}{7} + \dfrac{7}{4} =$ _____ (mixed number)

(64) $996 \times 997 =$ _____

(65) If $f(x) = (\sqrt{x})^2$, then $f(9) =$ _____

(66) If it takes Julie 2 hours to do the same job that takes Billy 5 hours to do, how long would it take them if they work together? _____ hours

(67) Find the slope of the line perpendicular to $3x + 5y = -3$. _____

(68) The slope of the line passing through $(8, -8)$ and $(0, 24)$ is _____

(69) If $180° = a\pi$ radians, then $a =$ _____

*(70) $142857 \times 88 =$ _____

(71) The discriminate of $x^2 + 7x - 8 = 0$ is _____

(72) $74^2 + 33^2 =$ _____

(73) If $\log_b 64 = 3$, then $b =$ _____

(74) Find the length of a side of a rhombus if the lengths of the two diagonals are 24 and 10. _____

(75) $5^3 \times 2^5 =$ _____

(76) If $\dfrac{1}{7} + \dfrac{1}{3} = \dfrac{1}{x}$, then $x =$ _____

(77) $84^2 + 32^2 =$ _____

(78) The product of the roots of $2x^2 - 6x - 9 = 0$ is _____

(79) If $(5a + 2)(a - 9) = 5a^2 + na - 18$, then $n =$ _____

*(80) $6.19^3 =$ _____