Middle School Number Sense Exam 010, 8/5/2017

(1) $3672 \div 12 =$ _____

(2) $271 - 148 =$ _____

(3) $11 \times 755 =$ _____

(4) $\frac{3}{8} \times \frac{4}{9} =$ _____

(5) The perimeter of a rectanglue with length $3\frac{3}{4}$ in and width 1.25 in. is _____ inches

(6) $241 - 99 =$ _____

(7) $2995 + 1999 + 3997 + 298 =$ _____

(8) $\frac{1}{3}$ of 7 is _____

(9) $9 + 4 + 3 + 1 + 7 + 6 =$ _____

*(10) $4265 - 24 - 633 - 2019 - 13 =$ _____

(11) $92 \times 75 =$ _____

(12) $47 \times 43 =$ _____

(13) $\frac{3}{4} + \frac{7}{8} =$ _____ (mixed number)

(14) 2 sq. ft. = _____ sq. in.

(15) The median of $-3, -12, -1$, and -7 is _____

(16) $\frac{3}{5} \times \frac{2}{15} =$ _____

(17) $\frac{2}{3} \times \frac{3}{5} \times \frac{3}{4} =$ _____

(18) $47 \times 43 =$ _____

(19) $78 \times 72 =$ _____

*(20) 64% of 7463 is _____

(21) The LCM of 24 and 18 is _____

(22) $7\frac{1}{9} \times 7\frac{8}{9} =$ _____ (mixed number)

(23) 36500 millimeters = _____ kilometers

(24) $3\frac{2}{5}\% =$ _____ (fraction)

(25) $33 \div 5\frac{1}{2} =$ _____

(26) The remainder of $2815 \div 9$ is _____

(27) 2% of 19 is _____

(28) The median of $.5, .8, .1, .11, .4$, and $.7$ is _____

(29) The side of a square with area 36 sq. in. is _____ in.

*(30) $8888 \times 333 =$ _____

(31) 15% of 400 is _____

(32) If one dozen eggs cost \$2.88, then 4 eggs cost \$ _____

(33) $\frac{31}{40} =$ _____ (decimal)

(34) $\frac{1}{3}$ of 14 is _____

(35) The mean of $131, 136, 131$, and 138 is _____

(36) $96 \times 12\frac{1}{2} =$ _____

(37) The height of a triangle with area 24 sq. ft. and base 6 ft. is _____ ft.

(38) The multiplicative inverse of 3 is _____

(39) $33\frac{1}{3} \times 18 =$ _____

*(40) $13 \times 15 \times 17 =$ _____

(41) $\sqrt{12\frac{1}{4}} =$ _____ (mixed number)

(42) $(512 - 215) \div 9$ has a remainder of _____

(43) The abscissa of the x-intercept of the line $-3x - y = 9$ is _____

(44) $63 \times 47 + 47 \times 37 =$ _____

(45) The total number of unique diagonals that can be drawn in a heptagon is _____

(46) $\frac{37}{40} =$ _____ (decimal)

(47) $\frac{4}{7} + \frac{7}{4} =$ _____ (mixed number)

(48) 3.5 gallons = _____ pints

(49) $16 \times 12.5 =$ _____

*(50) 27% of 3997 = _____

(51) The probability of getting a sum of 11 when rolling a pair of dice is _____

(52) The volume of a cube with inner diagonal 3 cm is _____ cu. cm

(53) One cubic yard = _____ cubic feet

(54) $202_4 =$ _____ $_{10}$

(55) 16% of 21 is 2% of _____

(56) $6\frac{4}{5}$ hours = _____ minutes

(57) $1 + 2 + 3 + \ldots + 14 + 15 =$ _____

(58) $\{O, K, L, A\}$ has _____ proper subsets

(59) $\frac{39}{40} =$ _____ (decimal)

*(60) $\sqrt{98600} =$ _____

(61) The ordinate of the y-intercept of the line $.5x - 2y = -8$ is _____

(62) If $4x = 3y$ and $2y = 3z$, then $x =$ _____ z's

(63) If $\sqrt{108}$ simplified is $a\sqrt{b}$, then $a =$ _____

(64) The simple interest on \$1600 at 3% interest for 6 months is \$ _____

(65) $63 \times 143 =$ _____

(66) If $45^\circ = a\pi$ radians, then $a =$ _____

(67) $22 \times 52 =$ _____

(68) If $f(x) = 3\sqrt{14 + x}$, then $f(67) =$ _____

(69) The next term in the sequence $1, 5, 3, 10, 5, 15, 7, \ldots$ is _____

*(70) $285714 \times 41 =$ _____

(71) $\mathrm{i}^{27} =$ _____

(72) $\frac{11}{13} \times 11 =$ _____ (mixed number)

(73) If $42_b = 38_{10}$, then $b =$ _____

(74) The discriminate of $2x^2 + 8x + 3 = 0$ is _____

(75) $.23_7 =$ _____ $_{10}$

(76) If the $\sin(45^\circ) = a\sqrt{2}$, then $a =$ _____

(77) $11! \div 8! =$ _____

(78) $\mathrm{i}^9 =$ _____

(79) $48 \times 52 =$ _____

*(80) $285714 \times 34 =$ _____