Middle School Number Sense Exam 019, 9/21/17

(1) $19 \div 3.5 =$ _____

(2) $14^2 =$ _____

(3) $101 \times 5.7 =$ _____ (decimal)

(4) $564 \times .11 =$ _____ (decimal)

(5) $93 \times 11 =$ _____

(6) $224 \div 4 =$ _____

(7) $25 \times 68 =$ _____

(8) $.06\% =$ _____ (decimal)

(9) $97531 \div 9$ has a remainder of _____

*(10) $46150 + 9817 + 642 =$ _____

(11) $19 - 3 \times 6 \div 2 =$ _____

(12) $9 \times 17 =$ _____

(13) $66 - 48 \div 3 \div 2 =$ _____

(14) $33\frac{1}{3} \times 42 =$ _____

(15) $6.2 =$ _____ %

(16) $85^2 =$ _____

(17) $9 \times 12\frac{1}{9} =$ _____

(18) $0.4 + \frac{5}{8} =$ _____

(19) $32 \times 75 =$ _____

*(20) $62 \times 137 =$ _____

(21) $111 \times 83 =$ _____

(22) $\frac{1}{4}$ yard = _____ feet

(23) $3912 \div 9$ has a remainder of _____

(24) $683 \div 9$ has a remainder of _____

(25) The LCM of 48 and 54 is _____

(26) $109 \times 104 =$ _____

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

(28) $11235 = 107\times$ _____

(29) $8 \times 9\frac{5}{8} =$ _____

*(30) $361 \times 248 =$ _____

(31) If $f(x) = x^2 - 11x + 14$, then $f(9) =$ _____

(32) The complement of a 19° angle is _____ °

(33) If $a = -3$, then $a^2 - 2a =$ _____

(34) $27 \times 87 =$ _____

(35) $28 - 5(16 \div 4) =$ _____

(36) The number of positive integral divisors of 22 is _

(37) The area of a rectangle with length 3.5 in. and width 1.8 in. is _____ sq. in.

(38) The total cost of a \$35 item with an 8% sales tax is \$ _____

(39) $103 \times 109 =$ _____

*(40) $4067 \div 13 =$ _____

(41) $13 \div 4\frac{1}{3} =$ _____

(42) $\frac{11}{9} + \frac{9}{11} =$ _____ (mixed number)

(43) The eighth triangular number is _____

(44) $.\overline{18} =$ _____ (fraction)

(45) $76^2 - 24^2 =$ _____

(46) If $f(x) = -x^2 + 4$, then $f(-6) =$ _____

(47) The area of a square with diagonal $6\sqrt{3} =$ _____

(48) $\frac{2}{3}$ gallon = _____ cubic inch

(49) $2 + 4 + 6 + \ldots + 58 + 60 =$ _____

*(50) $25 \times 142857 =$ _____

(51) $1 + 2 + 3 + \ldots + 43 + 44 =$ _____

(52) If $5x = 9y$ and $7y = 3z$, then $x =$ _____ z's

(53) $\{M, I, C, H\} \cap \{T, E, C, H\}$ has _____ elements

(54) $38 \times 42 =$ _____

(55) $\sqrt{(54)(24)} =$ _____

(56) The positive geometric mean of 16 and 25 is _____

(57) The diagonal of a square with side 11 cm is _____ cm

(58) If $\sqrt{32}$ is simplified to $a\sqrt{b}$, then $a =$ _____

(59) 764 = _____ (Arabic Number)

*(60) 31% of 2408 = _____

(61) 0.25π radians = _____ $^\circ$

(62) The abcissa of the x-intercept of the line $6x - 3y = 18$ is _____

(63) The smallest palindrome larger than 292 is _____

(64) $12 \div 0.0833\ldots =$ _____

(65) Subtracting 17% of a number from the number is the same as multiplying the number by _____ (decimal)

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

(67) The probability of rolling a pair of dice and getting a sum of 7 is _____

(68) $39 \times 3367 =$ _____

(69) How many digits are in $2^8 \times 5^6 \times 7^2$? _____

*(70) 72% of 209833 = _____

(71) $65^2 + 44^2 =$ _____

(72) The product of the roots of $2a^2 - 7a - 10 = 0$ ___

(73) The sum of the roots of $3x^2 - x - 3 = 0$ is _____

(74) $52_7 - 34_7 =$ _____$_7$

(75) The measure of an exterior angle of a regular quadrilateral is _____ $^\circ$

(76) The probability of flipping three coins and getting all heads is _____

(77) $2^4 \times 5^6 =$ _____

(78) The odds of rolling a sum less than 4 with a pair of dice is _____

(79) If $14\sqrt{x} - 7 = 35$, then $x =$ _____

*(80) $17 \times 18 \times 19 =$ _____