Middle School Number Sense Exam 023, 10/19/2017

(1) $11 \times 0.0782 =$ _____ (decimal)

(2) $0.42 =$ _____ (fraction)

(3) $429 + 924 =$ _____

(4) $3\frac{13}{20} =$ _____ %

(5) $678 \times 11 =$ _____

(6) $\frac{5}{8} =$ _____ (decimal)

(7) $\frac{19}{25} =$ _____ %

(8) $13\frac{1}{5} + 9 + 7.8 =$ _____

(9) $39 \times 101 =$ _____

*(10) $231 \times 796 =$ _____

(11) $48 \times 12\frac{1}{2} =$ _____

(12) $8 \times 34 =$ _____

(13) $69 \times 61 =$ _____

(14) $\frac{6}{125} =$ _____ (decimal)

(15) $5 \times 4 \times 3 \times 2 \times 1 \times 0 =$ _____

(16) $.006 \times 10^2 =$ _____

(17) $35 \div 2.5 =$ _____

(18) $1 + 3 + 5 + \ldots + 11 + 13 =$ _____

(19) $216 \times 25 =$ _____

*(20) $772 \times 3.6 =$ _____

(21) $5 \times 13\frac{2}{5} =$ _____

(22) $107^2 =$ _____

(23) The LCM of 42 and 28 is _____

(24) If $4n + 3 = 2n + 19$, then $n =$ _____

(25) $6\frac{3}{8} - 3\frac{7}{8} =$ _____ (mixed number)

(26) $8523 \div 4$ has a remainder of _____

(27) $2016 = 2^5 \times$ _____

(28) $77 \times 83 =$ _____

(29) Find the sum of the prime numbers between 10 and 20. _____

*(30) $297312 \div 421 =$ _____

(31) $125 \times 16 =$ _____

(32) The selling price of a \$24 item after a 200% markup is \$ _____

(33) The circumference of a circle with area 196π sq. in. is _____ in.

(34) The cost of renting a paint sprayer for a week at \$10.50 per day is \$ _____

(35) The number of positive integral divisors of 50 is _____

(36) $1 + 3 + 5 + \ldots + 31 + 33 =$ _____

(37) $125 \times .008 =$ _____

(38) $5\frac{1}{9} \times 13\frac{1}{9} =$ _____ (mixed number)

(39) $9^2 + 18^2 =$ _____

*(40) $4444 \times 32 =$ _____

(41) $23^2 =$ _____

(42) 45% of $160 =$ _____

(43) The sum of the nine smallest positive even integers is _____

(44) $98 \times 89 =$ _____

(45) The ordinate of the point $(-6, 2)$ after it is reflected over the x-axis is _____

(46) The GCF of 80 and 32 is _____

(47) $\sqrt{676} =$ _____

(48) $9^2 + 27^2 =$ _____

(49) If $2 + 4 + 6 + \ldots + 34 = 17k$, then $k =$ _____

*(50) $571428 \times 105 =$ _____

(51) 450 is 3% of _____

(52) 12% of 72 is 18% of _____

(53) The abscissa of the x-intercept of the line $-4x + 5y = 40$ is _____

(54) $59°$Fahrenheit = _____ $°$Celisus

(55) $\dfrac{31}{40} =$ _____ %

(56) $41_{10} =$ _____ $_6$

(57) If $8n - 9 = n + 47$, then $n =$ _____

(58) $997 \times 996 =$ _____

(59) 81 cubic feet = _____ cubic yards

*(60) $4572 \div 2.7 =$ _____

(61) $13^2 + 29^2 =$ _____

(62) $3367 \times 81 =$ _____

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

(64) $3! + 2! =$ _____

(65) If $3x^2 - 5 = 70$ and $x < 0$, then $x =$ _____

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

(67) $12! \div 9! =$ _____

(68) The 30th term of the sequence $5, 4.5, 4, \ldots$ is _____

(69) $(8a^4b^5)^2 \div (2ab)^5 =$ _____

*(70) $\sqrt[3]{50000} =$ _____

(71) $34_6 + 15_6 =$ _____ $_6$

(72) $406^2 =$ _____

(73) $i^{52} =$ _____

(74) If $10^x = 9$, then $10^{0.5x} =$ _____

(75) $143 \times 101 =$ _____

(76) 5 books can be arranged on a shelf in _____ different ways

(77) $\sqrt{25^3} =$ _____

(78) $125 \times 8 =$ _____

(79) The sum of the 8th pentagonal and the 8th triangular number is _____

*(80) The surface area of a sphere with radius 9 in. is _____ sq. in.