Middle School Number Sense Exam 012, 8/17/2017

(1) $28\% =$ _____ (fraction)

(2) $294 \times 6 =$ _____

(3) $\frac{1}{3}$ of $17 =$ _____

(4) $30\% =$ _____ (decimal)

(5) $7.7 + 3.3 + 1.1 =$ _____ (decimal)

(6) $(7 \times 1000) + (5 \times 100) + (24 \times 1) =$ _____

(7) $25 \times 68 =$ _____

(8) $7 + 7^2 =$ _____

(9) $116\% =$ _____ (decimal)

*(10) $94 + 74 + 54 + 34 + 14 =$ _____

(11) $\frac{17}{20} =$ _____ %

(12) $2008 =$ _____ (Roman Numeral)

(13) $\frac{2}{3} + \frac{1}{5}$ _____

(14) $.9 - \frac{2}{5} =$ _____

(15) $68\% =$ _____ (fraction)

(16) $\frac{1}{4}$ of 22 is _____

(17) $6 + 2(14 \div 7) =$ _____

(18) $\frac{3}{19} + \frac{2}{3} =$ _____

(19) Which is smaller: .75 or $\frac{7}{9}$? _____

*(20) $412 \times 209 =$ _____

(21) If 8 bags of chips cost \$17.92, then 1 bag of chips costs \$ _____

(22) 84 hours = _____ days

(23) 36 minutes = _____ hours

(24) $12.5 \times 76 =$ _____

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

(26) 15% of 480 = _____

(27) \$4.85 = _____ nickels

(28) $35 \times 75 =$ _____

(29) If 3 dozen pens cost \$3.96, then 4 pens cost \$ ___

*(30) $321 \times 648 =$ _____

(31) The GCF of 231 and 77 is _____

(32) $7\frac{1}{3} \times 5\frac{1}{3} =$ _____ (mixed number)

(33) $9\frac{3}{17} \times 9\frac{14}{17} =$ _____ (mixed number)

(34) If one pound of grapes cost \$1.75, then 4 pounds cost \$ _____

(35) $\sqrt{729} =$ _____

(36) The multiplicative inverse of 3 is _____

(37) $16\frac{2}{3} \times 1.8 =$ _____

(38) $36 \div \frac{4}{9} =$ _____

(39) $2\frac{7}{13} \times 2\frac{6}{13} =$ _____ (mixed number)

*(40) $11052 \div 61 =$ _____

(41) $\{M, I, A, m, i\}$ has _____ subsets

(42) $46 \times 12 + 18 \times 46 =$ _____

(43) 3 gallons = _____ cu. in.

(44) $372 \div 9 =$ _____ (mixed number)

(45) The measure of an exterior angle of a regular dodecagon is _____ °

(46) $\frac{3}{8}\% =$ _____ (decimal)

(47) The prime twin of 7 is _____

(48) $\{f, a, c, t, o, r\}$ has _____ proper subsets

(49) $33^2 =$ _____

*(50) 43% of 6391 = _____

(51) If $f(x) = \dfrac{15}{x}$, then $f\left(\dfrac{1}{5}\right) =$ _____

(52) $7^2 + 14^2 =$ _____

(53) $(74 \times 52) \div 6$ has a remainder of _____

(54) If the area of a semicircle is 32π sq. km., then its radius is _____ kms

(55) $211_6 =$ _____ 10

(56) If $f(x) = \dfrac{x}{5}$, then $f(2.8) =$ _____

(57) $\{b, o, y, d\} \cap \{r, h, o, m, e\}$ has _____ elements

(58) $24_4 =$ _____ 10

(59) $4\dfrac{5}{6} \times 8\dfrac{5}{6} =$ _____ (mixed number)

*(60) $18 \times 19 \times 20 =$ _____

(61) $\dfrac{1}{33}$ gallon = _____ cubic inches

(62) 11 is what % less than 25? _____

(63) $5\dfrac{7}{8} \times 8\dfrac{4}{5} =$ _____ (mixed number)

(64) $\sqrt{(80)(45)} =$ _____

(65) $9! \div 7! =$ _____

(66) If $(n-8)(2n-7) = 2n^2 + an + 56$, then $a =$ ____

(67) $63 \times 143 =$ _____

(68) 30 miles per hour = _____ feet per second

(69) The total number of diagonals that can be drawn in a dodecagon is _____

*(70) $\sqrt{227} + \sqrt{396} =$ _____

(71) $51_6 - 43_6 =$ _____ 6

(72) $2i^{64} =$ _____

(73) 2 gallons = _____ pints

(74) $\dfrac{1}{5} + \dfrac{1}{8} = \dfrac{1}{x}$, then $x =$ _____

(75) $52^2 + 15^2 =$ _____

(76) $10! \div 7! =$ _____

(77) $5! =$ _____

(78) $\sin(30°) =$ _____

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

*(80) The surface area of a sphere with radius 6 cm. is _____ sq. cm.