Middle School Number Sense Exam 036, 2/16/2018

(1) $108 \div 18 =$ _____

(2) $\frac{5}{3} \times 12 \times 20 =$ _____

(3) $4\frac{9}{50} =$ _____ %

(4) $11^2 =$ _____

(5) $657 - 493$ _____

(6) $\frac{17}{15} \times 60 =$ _____

(7) $614 - 386 =$ _____

(8) $11 \times 23\frac{1}{2} =$ _____

(9) $13 \div \frac{1}{4} =$ _____

*(10) $7777 \div 42 =$ _____

(11) $5 \times 4 \times 3 \times 2 \times 1 \times 0 =$ _____

(12) The number halfway between 13 and -6 is _____

(13) $\frac{2}{3} - \frac{1}{4} =$ _____

(14) DL + CV = _____ (Arabic Number)

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

(16) $(\text{LX})^2 =$ _____ (Arabic Number)

(17) $75^2 =$ _____

(18) $659 =$ _____ (Roman Numeral)

(19) .03 kilograms - 20 grams = _____ grams

*(20) $88 \times 631 =$ _____

(21) 9 gallons = _____ quarts

(22) $11\frac{2}{3}\% =$ _____ (fraction)

(23) The sum of the smallest 10 positive even integers is _____

(24) $2\frac{4}{7} \times 12\frac{4}{7} =$ _____

(25) $48 \div \frac{8}{9} =$ _____

(26) $21 + 7 \div 3 + 5 \div 3 =$ _____

(27) The LCM of 20 and 30 is _____

(28) $0.454545\ldots =$ _____ (fraction)

(29) $92 \times 95 =$ _____

*(30) $11 \times 1016 \times 3\frac{4}{11} =$ _____

(31) If $4x + 8 = 2x + 46$, then $x =$ _____

(32) The sale price of a \$48 shirt at 20% off is \$ _____

(33) If the range of $3, 5, 7$, and x is 12, then the largest possible value of x is _____

(34) 24% of 80 is 3% of _____

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

(36) $16^2 =$ _____

(37) The additive inverse of $-\frac{1}{3}$ is _____

(38) $102 \times 113 =$ _____

(39) $9\frac{1}{9} \times 9\frac{8}{9} =$ _____ (mixed number)

*(40) 13% of 51142 = _____

(41) 7% of 60 is _____ % of 10

(42) How many distinct diagonals can be drawn inside a regular polygon with exterior angle 60°? _____

(43) $44_{10} =$ _____ $_5$

(44) 3 sq. ft. = _____ sq. in.

(45) If $f(x) = \frac{5}{x} + 2$, then $f\left(\frac{1}{4}\right) =$ _____

(46) The simple interest on \$4000 for 9 m onths at 9% is \$ _____

(47) The length of a rectangle with area 78 sq. in. and width 6 in. is _____ inches

(48) $145_6 =$ _____ 10

(49) $\frac{7}{40} =$ _____ (decimal)

*(50) $\pi^6 - \pi^5 =$ _____

(51) The abscissa of the x-intercept of the line $9y - 2x = 4$ is _____

(52) $26_8 =$ _____ 10

(53) The next term of the sequence $0, 1, 8, 27, \ldots$ is _____

(54) $12.5 \times 24 =$ _____

(55) The area of a square with a diagonal 8 in. is _____ sq. in.

(56) $99 =$ _____ (Roman Numeral)

(57) $\frac{7}{11} + \frac{11}{7} =$ _____ (mixed number)

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

(59) $1111^2 =$ _____

*(60) 30% of 80% of 14753 = _____

(61) The prime twin of 19 is _____

(62) If $45_b = 37_{10}$, then $b =$ _____

(63) $\sqrt{3\frac{6}{25}} =$ _____ (mixed number)

(64) If $f(x) = 3x^2 - 2x$, then $f(5) =$ _____

(65) If $f(x) = \frac{3}{x} + 4$, then $f\left(-\frac{1}{4}\right) =$ _____

(66) The ordinate of the point $(-2, -5)$ after it is reflected over the x-axis is _____

(67) The slope of the line $6x = 2y + 18$ is _____

(68) $14 \times \frac{14}{13} =$ _____ (mixed number)

(69) $1008 \times 1015 =$ _____

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

(71) A tetrahedron has _____ faces

(72) The product of the GCF and the LCM of 12 and 9 is _____

(73) $43_7 + 52_7 =$ _____ 7

(74) If P and Q are roots of $2x^2 + bx + 10 = 0$, and $P + Q = 5$, then $b =$ _____

(75) $107 \times 105 =$ _____

(76) The slope of the line $x + 10 = 5y$ is _____

(77) $12_4 + 3_4 + 2_4 =$ _____ 4

(78) If $8^x = 12$ and $5^x = 7$, then $40^x =$ _____

(79) The sum of the roots of $x^2 + 5x - 14 = 0$ is ____

*(80) $4.65^4 =$ _____