# Middle School Number Sense Exam 005, 7/16/2017

(1) $675 =$ _____ (Roman Numeral)

(2) $746 - 47 =$ _____

(3) $36 \div 4 + 2 \times 3 =$ _____

(4) $4.6 + 3.1 + 2.2 =$ _____

(5) $11^2 =$ _____

(6) $1.87 =$ _____ %

(7) $(7 \times 1000) + (6 \times 100) + (8 \times 10) - (3 \times 1) =$ ____

(8) $\frac{7}{16} \times \frac{12}{21} =$ _____ (fraction)

(9) $228 \times 50 =$ _____

*(10) $4444 \div 37 =$ _____

(11) XCI − XII = _____ (Arabic Number)

(12) $11\frac{5}{9} \times 9 =$ _____

(13) $36 \times 75 =$ _____

(14) $14 + 7 \times 2 \div 7 =$ _____

(15) $1.8 =$ _____ %

(16) XXXII + XVIII = _____ (Roman Numeral)

(17) $.46 \times 101 =$ _____ (decimal)

(18) $111 \times 62 =$ _____

(19) $\frac{4}{5} + \frac{1}{3} =$ _____

*(20) 64% of 7463 is _____

(21) If $\frac{x}{8} = \frac{18}{x}$, then $x =$ _____

(22) $202 \times 36 =$ _____

(23) The mode of $2, 22, 2, 22, 222, 22$ is _____

(24) The area of a square with side $\frac{1}{3}$ mm. is _____ sq. mm.

(25) $4 + (-12) + 5 + (-7) =$ _____

(26) $39 - 27 \div 3 \div 3 =$ _____

(27) 23% of 141 is 69% of _____

(28) 2.6 meters − 112 cm = _____ cm

(29) 16 feet = _____ yards

*(30) $\frac{3}{7} \times 64821 \div 3 =$ _____

(31) $74 \times 34 =$ _____

(32) 20% of 35 = _____

(33) The area of a triangle with base 6 cm and height 9 cm is _____ sq. cm.

(34) $55^2 =$ _____

(35) $14 \times 28 =$ _____

(36) $36 \div \frac{4}{7} =$ _____

(37) $44_8 =$ _____ 10

(38) If $4x - 7 = 29$, then $x =$ _____

(39) $98 \times 91 =$ _____

*(40) $142857 \times 26 =$ _____

(41) The LCM of 35 and 15 is _____

(42) $\{M, A, I, N, E\}$ has _____ subsets

(43) $21^2 + 7^2 =$ _____

(44) $59^2 \div 4$ has a remainder of _____

(45) $-9^2 =$ _____

(46) $32 \times 13 - 27 \times 13 =$ _____

(47) If the area of a circle with radius 5 yds. is $a\pi$ sq. yds., then $a =$ _____

(48) 2 square miles = _____ acres

(49) $9^2 + 27^2 =$ _____

*(50) $45 \times 142857 =$ _____

(51) $996 \times 998 =$ _____

(52) If $f(x) = \frac{1}{4}x + \frac{1}{3}x$, then $f(48) =$ _____

(53) 24% of 22 is 3% of _____

(54) The diagonal of a square with side 1 km is _____ km

(55) The slope of the line $x - 6y = 10$ is _____

(56) The positive, geometric mean between 25 and 4 is _____

(57) $(6^3 + 9^4) \div 5$ has a remainder of _____

(58) If $\frac{1}{3} + \frac{1}{8} = \frac{1}{x}$, then $x =$ _____

(59) The positive, geometric mean between 2 ad 18 is _____

*(60) $142857 \times 51 =$ _____

(61) $995 \times 998 =$ _____

(62) If $\sqrt{300} = a\sqrt{b}$, then $a =$ _____

(63) If $\log_b 243 = 5$, then $b =$ _____

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

(65) The slope of the line passing through $(8, -8)$ and $(0, 24)$ is _____

(66) $48 \times 3367 =$ _____

(67) $47_{10} =$ _____ 3

(68) $32 \times 23 =$ _____

(69) The probability of getting a sum of 7 when rolling two dice is _____

*(70) $\sqrt{146} \times \sqrt{220} =$ _____

(71) The smallest of 3 consecutive integers whose sum is 126 is _____

(72) If the $\log_{12} 1 = x$, then $x =$ _____

(73) The remainder of $26^2 \div 4$ is _____

(74) The next term of $1, 1, 2, 3, 5, \ldots$ is _____

(75) $\mathrm{i}^{17} =$ _____

(76) $\frac{\pi}{2}$ radians = _____ degrees

(77) $3\pi$ radians = _____ degrees

(78) $10\frac{1}{3} \times 6\frac{1}{5} =$ _____ (mixed number)

(79) $9! \div 7! =$ _____

*(80) $3^{10} =$ _____