

Middle School Number Sense Exam 035, 2/2/2018

- (1) $12^2 =$ _____ (Roman numeral)
- (2) $0.321 =$ _____ % (decimal)
- (3) $13\frac{1}{5} + 9 + 7.8 =$ _____
- (4) $404 \times 21 =$ _____
- (5) $\frac{9}{11} - \frac{3}{4} =$ _____ (fraction)
- (6) $7 \times 29 =$ _____
- (7) $2017 \times 5 =$ _____
- (8) $(9^2 - 1) \div (3^2 - 1) =$ _____
- (9) $\frac{3}{8} + \frac{3}{4} =$ _____
- *(10) $1317 + 249 - 781 =$ _____
- (11) $125^2 =$ _____
- (12) $12 \div 1.5 =$ _____
- (13) The mean of 11, 15, and _____ is 16
- (14) $5 \times 16\frac{3}{5} =$ _____
- (15) $1748 \times 50 =$ _____
- (16) The number halway between 11 and -5 is _____
- (17) $47 \times 43 =$ _____
- (18) D-XXIII = _____ (Arabic Number)
- (19) $9 \times 11\frac{7}{9} =$ _____
- *(20) 59% of 9462 = _____
- (21) $.65 \div .005 =$ _____
- (22) Which is smaller: $.3$ or $\frac{4}{13}$? _____
- (23) 15% of 480 = _____
- (24) 5 pints + 3 cups = _____ cups
- (25) $9\frac{1}{6} \times 9\frac{5}{6} =$ _____ (mixed number)
- (26) $\frac{2}{5}$ of 18 is _____
- (27) $16\frac{2}{3} \times 54 =$ _____
- (28) The multiplicative inverse of $\frac{5}{19}$ is _____
- (29) 56000 centimeters = _____ kilometers
- *(30) 67% of 3217 = _____
- (31) If 3 pens cost \$0.72, then 2 dozen pens cost \$ _____
- (32) $52 \times 7 + 8 \times 7 =$ _____
- (33) The product of the LCM and the GCF of 15 and 18 is _____
- (34) 88 has how many positive integral divisors? _____
- (35) If the perimeter of a regular hexagon is 78, then the length of each side is _____
- (36) $14_6 =$ _____ $_{10}$
- (37) There are 3 equal angles of measure 80° in a quadrilateral. The measure of the fourth angle is _____ $^\circ$
- (38) If $\frac{2}{3}x - 5 = -11$, then $x =$ _____
- (39) 30 has how many positive integral divisors? _____
- *(40) $142857 \times 47 =$ _____
- (41) If $f(x) = \frac{5}{x}$, then $f\left(\frac{1}{8}\right) =$ _____
- (42) $\overline{.18} =$ _____ (fraction)
- (43) The area of a rectangle with length 48 cm and width 0.75 cm is _____ sq. cm.
- (44) The complement of a 61° angle is _____ $^\circ$

- (45) $1111^2 =$ _____
- (46) $96 \times 106 =$ _____
- (47) 3 miles = _____ yards
- (48) $\sqrt{11\frac{1}{9}} =$ _____ (mixed number)
- (49) $5^5 \times 2^4 =$ _____
- *(50) The side of a square with area 60000 is _____
- (51) 64 acres = _____ sq. miles
- (52) The distance between (1, -5) and (9, 10) is _____
- (53) If $4^2 + 8^2 + 16^2 = k \times 4^2$, then $k =$ _____
- (54) $16 \times \frac{15}{13} =$ _____ (mixed number)
- (55) If $\sqrt{45}$ simplified is $a\sqrt{b}$, then $a =$ _____
- (56) $41 \times 18 =$ _____
- (57) If $5x = 9y$ and $7y = 3z$, then $x =$ _____ z 's
- (58) $\sqrt{4\frac{21}{25}} =$ _____ (mixed number)
- (59) The area of a rectangle with length 14 and width 9 is _____
- *(60) $98 \times 96 \times 94 =$ _____
- (61) $\sqrt{3249} =$ _____
- (62) $6^2 + 18^2 =$ _____
- (63) The number of permutation of 7 items taken 5 at a time is _____
- (64) The sum of the roots of $-3x^2 - 17x + 11 = 0$ is _____
- (65) $8^2 \times 5^5 =$ _____
- (66) $3\frac{3}{4} \times \frac{4}{5} =$ _____
- (67) If it takes Julie 2 hours to do the same job that takes Billy 5 hours to do, how long would it take them if they work together? _____ hours
- (68) $6^3 \div 1.5^3 =$ _____
- (69) $\frac{19}{21} \times 19 =$ _____ (mixed number)
- *(70) $3.35^5 =$ _____
- (71) The largest palindrome smaller than 130 is _____
- (72) 44 feet per second = _____ miles per hour
- (73) The abscissa of the x -intercept of the line $-6x - 5y = -30$ is _____
- (74) If $a^4 \times a^6 \times a^7 \div a^2 = a^x$, then $x =$ _____
- (75) $1009 \times 1002 =$ _____
- (76) $\sqrt[3]{27^3} =$ _____
- (77) If $23_b = 11_{10}$, then $b =$ _____
- (78) If $25_b = 21_{10}$, then $b =$ _____
- (79) The product of the roots of $x^2 - 49 = 0$ is _____
- *(80) $4\frac{3}{8} \times 1\frac{6}{7} \times 12\frac{1}{5} =$ _____