

Middle School Number Sense Exam 029, 12/8/2017

- (1) $98 \div 14 =$ _____
- (2) $\frac{1}{8} =$ _____ %
- (3) $297 \div 9 =$ _____
- (4) $0.321 =$ _____ % (decimal)
- (5) $0.9 =$ _____ (fraction)
- (6) $513 + 768 =$ _____
- (7) $7 \times 29 =$ _____
- (8) $\frac{1}{3}$ of 19 is _____
- (9) $\frac{1}{5}$ of 17 is _____
- *(10) $94 + 168 + 2145 + 13192 =$ _____
- (11) $13^2 =$ _____
- (12) CMLIV = _____ (Arabic Number)
- (13) $28 \times 101 =$ _____
- (14) 600 centiliters = _____ Dekaliters
- (15) $4 \times 7.25 =$ _____
- (16) $12 - 4(15 \div 5) =$ _____
- (17) Which is smaller: $\frac{4}{7}$ or $\frac{6}{10}$? _____
- (18) The remainder of $975 \div 4$ is _____
- (19) XLIV + CX = _____ (Arabic Number)
- *(20) $3148 \div 18 =$ _____
- (21) $27 \times 23 =$ _____
- (22) $8 \times 5 \div 12 + 8 \times 4 \div 12 =$ _____
- (23) The mean of 48, 41, 47, 41, and 38 is _____
- (24) $17^2 - 13^2 =$ _____
- (25) $15 + (-4)(-2)(-1) =$ _____
- (26) $25 \div 1.25 =$ _____
- (27) $(-5) + (-5) - (-5) + 5 =$ _____
- (28) $35 \times 44 =$ _____
- (29) Which is larger: $-\frac{5}{9}$ or $-\frac{8}{15}$? _____
- *(30) $\sqrt{48721} =$ _____
- (31) The mean of 110, 119, 118, and 109 is _____
- (32) The number of positive integral divisors of 24 is _____
- (33) 134 nickels = \$ _____
- (34) $12\frac{3}{4} \times 4\frac{3}{4} =$ _____ (mixed number)
- (35) $.08 \div .001 =$ _____
- (36) $106 \times 109 =$ _____
- (37) The supplement of a 23° angle is _____ $^\circ$
- (38) $11\frac{2}{7} \times 11\frac{5}{7} =$ _____ (mixed number)
- (39) If Joe invests \$1800 at 6% interest for 4 months, how much interest will Joe earn? \$ _____
- *(40) $\sqrt{15000} =$ _____
- (41) $9^2 + 18^2 =$ _____
- (42) $\{t, y, l, e, r\}$ has _____ subsets
- (43) The simple interest on \$3500 at 4% for 5 years is \$ _____
- (44) $11\frac{4}{5} \times 11\frac{1}{5} =$ _____
- (45) $\sqrt{1681} =$ _____
- (46) The area of a square with diagonal $\sqrt{7}$ is _____
- (47) $(29^2 \times 7) \div 6$ has a remainder of _____

- (48) The simple interest on \$2400 at 8% for 6 months is \$ _____
- (49) $7^3 =$ _____
- *(50) $14 \times 16 \times 18 =$ _____
- (51) $\frac{33}{40} =$ _____ %
- (52) $3367 \times 9 =$ _____
- (53) The number of positive, proper fractions in lowest terms with denominator 9 is _____
- (54) The product of the LCM and the GCF of 6 and 15 is _____
- (55) $19 \times \frac{18}{17} =$ _____ (mixed number)
- (56) $43_8 - 15_8 =$ _____ ₈
- (57) $\sqrt{1\frac{9}{16}} =$ _____ (mixed number)
- (58) $\frac{4}{9} + \frac{9}{4} =$ _____ (mixed number)
- (59) $\frac{1}{21}$ gallon = _____ cu. inches
- *(60) $6.22 \times 1.6 \times 9.5 =$ _____
- (61) The total number of diagonals that can be drawn in an octagon is _____
- (62) Given $595 \div 5 = 119$, then $595 \div 35 =$ _____
- (63) The abscissa of the point $(-4, 8)$ after it is reflected over the x -axis is _____
- (64) If $8x = 3y$ and $2y = 5z$, then $x =$ _____ z 's
- (65) If $45^\circ = a\pi$ radians, then $a =$ _____
- (66) It takes Bob 4 hours to write a number sense test. It takes Mary 6 hours to write the same test. How long will it take them to write the test if they work together? _____ hours
- (67) The slope of the line $3y + 4 = 2x$ is _____
- (68) $2x^2 + 7x - 15 = 0$ has roots P and Q , then $P + Q + PQ =$ _____
- (69) If $\sqrt{2^2 \times 3^3} = a\sqrt{b}$, where b doesn't have a perfect square divisor larger than 1, then $a + b =$ _____
- *(70) $12 \times 13 \times 14 =$ _____
- (71) If $2x - 3y = 4$ and $x + y = 7$, then $x =$ _____
- (72) $(a^2b^3c)^3 \times (4abc)^2 =$ _____
- (73) The distance between $(-5, 0)$ and $(1, -8)$ is _____
- (74) If $\log_7 1 = x$, then $x =$ _____
- (75) P and Q are roots of $4x^2 - 47x + 36 = 0$. The geometric mean of P and Q is _____
- (76) $33_6 + 54_6 =$ _____ ₆
- (77) $.22_4 =$ _____ ₁₀
- (78) $4\frac{1}{3} \times 6\frac{1}{4} =$ _____ (mixed number)
- (79) How many distinct 6-letter arrangements can be made from $\{r, o, b, e, r, t\}$? _____
- *(80) $\sqrt[3]{142853} =$ _____