

Middle School Number Sense Exam 017, 9/9/2017

- (1) $7.4 + 3.2 + 0.4 =$ _____
- (2) $76\% =$ _____ (fraction)
- (3) $161 \div 7 =$ _____
- (4) $11 \times 13\frac{1}{2} =$ _____ (decimal)
- (5) $\frac{7}{9} \times 360 =$ _____
- (6) $11 \times 6371 =$ _____
- (7) $11 \div 2 + 9 - 3 \div 2 =$ _____
- (8) $\frac{0}{10} - \frac{3}{7} =$ _____ (fraction)
- (9) $24 \times 125 =$ _____
- *(10) $319 \times 86 =$ _____
- (11) $16\frac{2}{3} \times 54 =$ _____
- (12) $828 \times 25 =$ _____
- (13) $23 - 2(6 + 4) =$ _____
- (14) $8271 \div 9$ has a remainder of _____
- (15) $312 \div 5 =$ _____ (decimal)
- (16) Which of the following is greater: $\frac{11}{15}$ or 0.7 ? _____
- (17) MLXII = _____ (Arabic Number)
- (18) $55^2 =$ _____
- (19) $6\frac{3}{11} \times 11 =$ _____
- *(20) $81 \times 283 =$ _____
- (21) $101 \times 836 =$ _____
- (22) The number halfway between -3 and 19 is _____
- (23) The median of $5, 9, 13, 12, 6,$ and 1 is _____
- (24) $.152$ kilometers = _____ centimeters
- (25) The area of a triangle with base 14 cm. and height 18 cm. is _____ sq. cm.
- (26) $\frac{7}{14} + \frac{9}{18} + \frac{6}{12} + \frac{3}{6} =$ _____
- (27) The side of a square with area 36 sq. in. is _____ in.
- (28) $-33 \div 11 + (-3) =$ _____
- (29) 36 sq. in. = _____ sq. ft.
- *(30) $\sqrt{460000} =$ _____
- (31) The GCF of 80 and 32 is _____
- (32) $\frac{37}{40} =$ _____ % (decimal)
- (33) If two dozen apples cost $\$5.04$, then six apples cost \$ _____
- (34) $107 \times 109 =$ _____
- (35) If $x + 3 = 2x + 6$, then $x =$ _____
- (36) $32^2 - 22^2 =$ _____
- (37) $104 \times 113 =$ _____
- (38) $16 \times 23 + 14 \times 23 =$ _____
- (39) $8\frac{7}{11} \times 8\frac{4}{11} =$ _____ (mixed number)
- *(40) $8862 \div 37 =$ _____
- (41) 2.4 pints = _____ ounces (decimal)
- (42) $2 + 4 + 6 + \dots + 24 + 26 =$ _____
- (43) If the area of a circle with diameter 70 ft. is $a\pi$ sq. ft., then $a =$ _____
- (44) If $a = \frac{1}{3}$ and $b = 12$, then $b \div a =$ _____
- (45) $\sqrt{48} =$ _____ (fraction)
- (46) $1111^2 =$ _____

- (47) 15% of 18 is 60% of _____
- (48) 40 acres = _____ sq. miles
- (49) $37 \times 18 - 16 \times 37 =$ _____
- *(50) 63% of 7141 is _____
- (51) The total number of unique diagonals that can be drawn in an octagon is _____
- (52) The distance between (3, 9) and (-6, -3) is _____
- (53) $143 \times 98 =$ _____
- (54) One cubic yard = _____ cubic feet
- (55) The geometric mean between 2 and 18 is _____
- (56) $(6^3 + 9^4) \div 5$ has a remainder of _____
- (57) $(36 \times 7 + 5) \div 6$ has a remainder of _____
- (58) $75_{10} =$ _____ ₆
- (59) The total number of unique diagonals that can be drawn in a hexagon is _____
- *(60) $\sqrt[3]{130000} =$ _____
- (61) $1 + 2 + 3 + \dots + 38 + 39 =$ _____
- (62) $737 \times 111 =$ _____
- (63) If $\sin(45^\circ) = a\sqrt{b}$, then $a =$ _____
- (64) What is the probability of drawing 2 consecutive hearts from a standard 52-card deck without replacement? _____
- (65) $13^2 + 39^2 + 13^2 + 26^2 = 13^2 \times$ _____
- (66) If $f(x) = x^4 - x^3$, then $f(2) =$ _____
- (67) The probability of getting a sum of 7 when rolling two dice is _____
- (68) $\sqrt{(50)(32)} =$ _____
- (69) $8^2 + 56^2 =$ _____
- *(70) $4\frac{4}{5} \times 3\frac{1}{7} \times 7\frac{5}{9} + 11\frac{5}{6} =$ _____
- (71) $43_6 + 33_6 =$ _____ ₆
- (72) The probability of randomly choosing a vowel from the word *COSINE* is _____
- (73) $\frac{\pi}{3}$ radians = _____ $^\circ$
- (74) $2^3 \times 5^5 =$ _____
- (75) If an urn contains 3 red marbles, 4 blue marbles and 8 orange marbles, then the odds of choosing a red marble is _____
- (76) $41_7 - 32_7 =$ _____ ₇
- (77) $\frac{1}{16}$ of 2016 is _____
- (78) The odds of rolling a sum greater than or equal to 9 with two dice is _____
- (79) $25_7 - 16_7 =$ _____ ₇
- *(80) $3462 \div 5.6 =$ _____