

Middle School Number Sense Exam 006, 7/21/2017

- (1) $4 \times 299 =$ _____
- (2) $1988 + 98 + 988 =$ _____
- (3) $\frac{17}{200} =$ _____ (decimal)
- (4) $682 =$ _____ (Roman Numeral)
- (5) $15 \div .25 =$ _____
- (6) $\frac{16}{250} =$ _____ %
- (7) $4 \times 9.5 =$ _____
- (8) $75\% =$ _____ (fraction)
- (9) $746 - 47 =$ _____
- *(10) $2016 - 2017 + 2018 + 9137 =$ _____
- (11) $132 \text{ hours} =$ _____ days
- (12) $5226 \div 13 =$ _____
- (13) $45^2 =$ _____
- (14) $\frac{1}{3}$ of $\frac{1}{4}$ of $\frac{1}{2}$ of 96 is _____
- (15) $12 + 16 \div 4 =$ _____
- (16) $24 + 16 \div 8 + 2 =$ _____
- (17) $\frac{18}{72}$ reduced to lowest terms is _____
- (18) The mode 3, 5, 3, 2, 3, 5, 2, 5, and 3 is _____
- (19) Which is larger: $-\frac{6}{7}$ or $-\frac{11}{13}$? _____
- *(20) $6.7 \times 472 =$ _____
- (21) $300 \text{ cm} + 200 \text{ mm} =$ _____ mms
- (22) $3\frac{2}{5} - 1\frac{5}{6} =$ _____ (mixed number)
- (23) The mean of 123, 125, 128, and 120 is _____
- (24) $65^2 =$ _____
- (25) $32 \div 5\frac{1}{3} =$ _____
- (26) $18 \times 12 =$ _____
- (27) If one dozen markers cost \$3.48, then one marker costs _____ cents
- (28) $208 \times 25 =$ _____
- (29) 102 has _____ unique, prime factors
- *(30) $3415 \div 18 =$ _____
- (31) $\sqrt{2401} =$ _____
- (32) $36 \div \frac{4}{7} =$ _____
- (33) The range of $-1, 0, -6, 4, 0, -2,$ and 13 is _____
- (34) $34_5 =$ _____ 10
- (35) 134 nickels = \$ _____
- (36) $39 \times 31 =$ _____
- (37) $104 \times 112 =$ _____
- (38) $7.5 \times 16 =$ _____
- (39) $341 \times 111 =$ _____
- *(40) $4621 \div 3.5 \times 7 =$ _____
- (41) 15% of 18 is 60% of _____
- (42) $\frac{39}{40} =$ _____ (decimal)
- (43) $2 + 4 + 6 + \dots + 24 + 26 =$ _____
- (44) 78 nickels = \$ _____
- (45) $11\frac{4}{5} \times 11\frac{1}{5} =$ _____
- (46) $\frac{3}{8} + \frac{8}{3} =$ _____ (mixed number)
- (47) $\{t, y, l, e, r\}$ has _____ subsets with odd numbered elements

- (48) $\sqrt{1089} =$ _____
- (49) The 9-th term in the sequence 7, 4, 1, ... is _____
- *(50) $25 \times 142857 =$ _____
- (51) $51 \times 66\frac{2}{3} =$ _____
- (52) $1 + 2 + 3 + \dots + 24 + 25 =$ _____
- (53) $\frac{6}{7} + \frac{7}{6} =$ _____ (mixed number)
- (54) The positive, geometric mean between 8 and 18 is _____
- (55) $\{L, S, U\} \cup \{Y, A, L, E\}$ has _____ elements
- (56) $33^2 \div 8$ has a remainder of _____
- (57) $6 \text{ ft.} \times 8 \text{ ft.} \times 9 \text{ ft.} =$ _____ cubic yards
- (58) If $\sqrt{32}$ is simplified to $a\sqrt{b}$, then $a =$ _____
- (59) The slope of the line $3x + 2y = 18$ is _____
- *(60) $285714 \times 55 =$ _____
- (61) The difference between the supplement and the complement of a 71° angle is _____ $^\circ$
- (62) $5\frac{4}{7} \times 5\frac{3}{7} =$ _____
- (63) If $22_b = 14_{10}$, then $b =$ _____
- (64) If $35_b = 29_{10}$, then $b =$ _____
- (65) The simple interest on \$1600 at 3% interest for 6 months is \$ _____
- (66) $\frac{4}{7} + \frac{7}{4} =$ _____ (mixed number)
- (67) The slope of the line $5x + 2y = 19$ is _____
- (68) Find the slope of the line perpendicular to $3x + 5y = -3$. _____
- (69) 270 minutes = _____ hours
- *(70) $\sqrt[3]{69000} =$ _____
- (71) The discriminant of $x^2 - 6x + 9 = 0$ is _____
- (72) $997 \times 989 =$ _____
- (73) $i^{16} =$ _____
- (74) The next term in the sequence 1, 4, 5, 8, 9, ... is _____
- (75) $i^{19} =$ _____
- (76) $\frac{\pi}{2}$ radians = _____ degrees
- (77) If $(x - 9)(x + 4) = x^2 + bx - 36$, then $b =$ _____
- (78) $8! \div 6! =$ _____
- (79) $42_7 + 55_7 =$ _____ $_7$
- *(80) $11^4 =$ _____