

Middle School Number Sense Exam 032, 1/5/2018

- (1) $144 \div 16 =$ _____
- (2) $0.004 =$ _____ %
- (3) $\frac{1}{4}$ of 19 is _____
- (4) $\frac{5}{8} =$ _____ % (mixed number)
- (5) $\frac{3}{5} =$ _____ %
- (6) $.38 =$ _____ (fraction)
- (7) $4 + 5 \div 2 - 3 \div 4 =$ _____ (decimal)
- (8) $19 \div \frac{1}{2} =$ _____
- (9) $972 - 683 =$ _____
- *(10) $2016 + 2017 + 2018 + 3974 =$ _____
- (11) Which is larger: $\frac{9}{31}$ or 0.3 ? _____
- (12) $1.08 \times 50 =$ _____
- (13) $\sqrt{196} =$ _____ (Roman Numeral)
- (14) $126 \div 18 =$ _____
- (15) $12 + 16 \div 4 =$ _____
- (16) $50 \times 638 =$ _____
- (17) $.0019$ kilograms = _____ milligrams
- (18) $16\frac{2}{3} \times 102 =$ _____
- (19) Which is larger: $-\frac{4}{9}$ or $-\frac{5}{11}$? _____
- *(20) 71% of 3718 = _____
- (21) 25 gallons = _____ ounces
- (22) $125 \times 72 =$ _____
- (23) The square root of 729 is _____
- (24) $10 - 21 \div 13 - 18 \div 13 =$ _____
- (25) 90 has _____ unique prime factors
- (26) The measure of an angle supplementary to an 86° angle is _____ $^\circ$
- (27) The perimeter of a rhombus with side 5.75 is _____
- (28) $12.5 \times 60 =$ _____
- (29) $111 \times 84 =$ _____
- *(30) $866 \div 6.12 =$ _____
- (31) $11\frac{2}{3} \times 11\frac{1}{3} =$ _____ (mixed number)
- (32) $6\frac{7}{11} \times 6\frac{4}{11} =$ _____ (mixed number)
- (33) $26 \times 86 =$ _____
- (34) The sale price of a \$48 shirt at 20% off is \$ _____
- (35) The selling price of a \$64 item with a 100% markup is \$ _____
- (36) $35 \times 75 =$ _____
- (37) If 8 pens cost \$2.25 then 2 dozen pens cost \$ _____
- (38) $31.4 \times 10^{-3} =$ _____
- (39) The sum of the positive integral divisors of 62 is _____
- *(40) $142857 \times 44 =$ _____
- (41) 33 cu. in. = _____ gallons
- (42) If $2 + 4 + 6 + \dots + 48 = 12 \times k$, then $k =$ _____
- (43) 42 has _____ positive, integer divisors
- (44) $23^2 =$ _____

- (45) The diagonal of a rectangle with length 0.4 ft. and width 0.3 ft. is _____ ft.
- (46) $98 \times 89 =$ _____
- (47) 1 sq. mile = _____ acres
- (48) $(23^2 + 4) \div 3$ has a remainder of _____
- (49) 25 pounds = _____ ounces
- *(50) $9.1 \times 6.23 \times 8.4 =$ _____
- (51) $(9^4 + 7^4) \div 8$ has remainder of _____
- (52) $\frac{31}{40} =$ _____ %
- (53) The positive, geometric mean between 11 and 2 is _____
- (54) $\frac{8}{11} + \frac{11}{8} =$ _____ (mixed number)
- (55) $\frac{1}{7}$ of a gallon = _____ cu. in.
- (56) $\frac{39}{40} =$ _____ % (decimal)
- (57) $\{s, a, m, p, l, e\} \cap \{s, p, a, c, e\}$ has _____ subsets
- (58) $12 \times \frac{12}{13} =$ _____ (mixed number)
- (59) The ordinate of the midpoint of the line segment between $(9, -5)$ and $(2, 14)$ is _____
- *(60) $6.3^4 =$ _____
- (61) $\{h, o, r, s, e\}$ has _____ subsets with an odd number of elements
- (62) The slope of the line passing through $(0, 5)$ and $(2, 6)$ is _____
- (63) The 11th term of the sequence $0, 1, 4, 9, \dots$ is _____
- (64) If $21_b = 17_{10}$, then $b =$ _____
- (65) The measure of an exterior angle of a decagon is _____ $^\circ$
- (66) $21_{10} =$ _____ $_3$
- (67) $\frac{5}{11} + \frac{11}{5} =$ _____ (mixed number)
- (68) $36 \times 18 =$ _____
- (69) The side of a square with diagonal $7\sqrt{2}$ ft. is _____ ft.
- *(70) The surface area of a hexahedron with edge 14 is _____
- (71) If $f(x) = 3x^3 - 5x^2 + 4x - 2$, then $f(3) =$ _____
- (72) The probability of getting a sum of 6 when rolling two dice is _____
- (73) $93^2 + 21^2 =$ _____
- (74) $62^2 + 14^2 =$ _____
- (75) $52 \times 101 + 57 \times 101 =$ _____
- (76) $\{R\}$ has _____ subsets
- (77) If $\frac{1}{8} + \frac{1}{6} = \frac{1}{x}$, then $x =$ _____
- (78) $65^2 + 44^2 =$ _____
- (79) The slope of the line passing through $(21, 13)$ and $(18, 4)$ is _____
- *(80) $5.3 \times 4.7 \times 1.3 =$ _____