

Middle School Number Sense Exam 042, 4/7/2018

- (1) $(4 \times 1000) + (3 \times 10) + (5 \times 100) =$ _____
- (2) $144 \div 16 =$ _____
- (3) $\frac{1}{3}$ of 16 is _____
- (4) $1489 - 892 =$ _____
- (5) $\frac{1}{2}$ of 19 = _____
- (6) $\frac{2}{3} \times 63 =$ _____
- (7) $13\frac{1}{5} + 9 + 7.8 =$ _____
- (8) $14 + 17 - 11 =$ _____
- (9) $\frac{5}{7} \times 56 =$ _____
- *(10) $2497 + 19873 - 4173 =$ _____
- (11) CDLXIV = _____ (Arabic Number)
- (12) 568 = _____ (Roman Numeral)
- (13) $\frac{9}{117}$ reduced to lowest terms is _____
- (14) $4\frac{1}{4} + 3\frac{3}{4} - 3\frac{2}{3} =$ _____
- (15) $93 \div 5 =$ _____ (decimal)
- (16) $125 \times 48 =$ _____
- (17) $9.2 \div .04 =$ _____
- (18) $45^2 =$ _____
- (19) $111 \times 641 =$ _____
- *(20) $9325 + 14 \times 899 =$ _____
- (21) If the circumference of a circle with area 196π sq. cm. is $a\pi$ cm., then $a =$ _____
- (22) $119 \times 103 =$ _____
- (23) The additive inverse of $\frac{3}{7}$ is _____
- (24) $66\frac{2}{3} \times 39 =$ _____
- (25) The height of a parallelogram with area 76 sq. in. and base 4 in. is _____ inches
- (26) $12.5 \times 96 =$ _____
- (27) $30 \times 4.5 =$ _____
- (28) $17^2 - 13^2 =$ _____
- (29) The GCF of 27 and 108 is _____
- *(30) $321 \times 648 =$ _____
- (31) $24 \div \frac{6}{7} =$ _____
- (32) $7^2 + 21^2 =$ _____
- (33) The length of a rectangle with width 7 ft. and area 84 sq. ft. is _____ ft.
- (34) The sales price of a \$75 item with a 50% discount is \$ _____
- (35) The reciprocal of -7 is _____
- (36) The smallest prime number is _____
- (37) If $4x + 9 = 20$, then $8x + 18 =$ _____
- (38) The sum of the positive integral divisors of 18 is _____
- (39) $13 \times 7\frac{3}{13} =$ _____
- *(40) $\sqrt{35000} =$ _____
- (41) $\frac{37}{40} =$ _____ %
- (42) 1 acre = _____ sq. miles
- (43) 56 has _____ unique prime factors
- (44) A regular polygon with an exterior angle of 20° and a side of 5 has a perimeter of _____

- (45) $52_{10} =$ _____ ₈
- (46) A set with 5 elements has _____ proper subsets
- (47) $2 + 4 + 6 + \dots + 24 + 26 =$ _____
- (48) The area of a square with diagonal $6\sqrt{3} =$ _____
- (49) $25_{10} =$ _____ ₈
- *(50) $667 \times 329 =$ _____
- (51) The positive geometric mean between 18 and 8 is _____
- (52) -4° Fahrenheit = _____ $^\circ$ Celsius
- (53) The slope of the line with x -intercept 9 and y -intercept of -4 is _____
- (54) 20° Celsius = _____ $^\circ$ Fahrenheit
- (55) If $4x - 15 > 14$, then the smallest integer solution of x is _____
- (56) $51 \times 3367 =$ _____
- (57) The 42nd term of the sequence $-3, -1, 1, 3, \dots$ is _____
- (58) $3367 \times 84 =$ _____
- (59) The number of distinct diagonals that can be drawn inside a decagon is _____
- *(60) $\sqrt[3]{530000} =$ _____
- (61) The largest palindrome smaller than 741 is _____
- (62) 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
- (63) $72^2 + 13^2 =$ _____
- (64) $\frac{17}{15} \times 17 =$ _____ (mixed number)
- (65) $3367 \times 33 =$ _____
- (66) $(ab^2)^2 \div (a^2b) =$ _____
- (67) $0.3\bar{6} =$ _____ (fraction)
- (68) $53_6 \div 3_6 =$ _____ ₆
- (69) If three times a number is the same as the sum of the number and 8, then the number is _____
- *(70) $285714 \times 55 =$ _____
- (71) 44 feet per second = _____ miles per hour
- (72) 60 miles per hour = _____ feet per second
- (73) 22.5 miles per hour = _____ feet per second
- (74) $72^2 \div 5$ has a remainder of _____
- (75) $(a^3b^3c)(ab^{-1}c) =$ _____
- (76) The 10th term of the sequence $-15, -6, 3, \dots$ is _____
- (77) If $60^\circ = a\pi$ radians, then $a =$ _____
- (78) The slope of the line passing through $(-4, 10)$ and $(0, -6)$ is _____
- (79) A tetrahedron has _____ faces
- *(80) 559 sq. miles = _____ acres