

Middle School Number Sense Exam 043, 4/16/2018

- (1) $18.3 \times 11 =$ _____ (decimal)
- (2) $\frac{3}{16} =$ _____ % (mixed number)
- (3) $\frac{1}{2}$ of 27 is _____
- (4) $\frac{5}{4} =$ _____ %
- (5) $484 \times 25 =$ _____
- (6) $(7 \times 100) + (6 \times 10) + (3 \times 10^2) =$ _____
- (7) $48 \times 11 =$ _____
- (8) $279 + 861 =$ _____
- (9) $9636 \div 12 =$ _____
- *(10) 2017 yards = _____ inches
- (11) $56 \times 75 =$ _____
- (12) $125 \times 5.6 =$ _____
- (13) $111 \times 418 =$ _____
- (14) $0.072 =$ _____ (fraction)
- (15) $65^2 =$ _____
- (16) $\frac{2}{3} + \frac{4}{5} =$ _____ (mixed number)
- (17) $280 \div 3.5 =$ _____
- (18) $101 \times 37 =$ _____
- (19) $94 \times 97 =$ _____
- *(20) $3 \times 27 \times 52 =$ _____
- (21) $8 - 4 \times 3 + 1 =$ _____
- (22) The remainder of $2815 \div 9$ is _____
- (23) 42 has how many distinct prime divisors? _____
- (24) 5 pints + 3 cups = _____ cups
- (25) $12 + (-3) - 7 =$ _____
- (26) $0.454545\dots =$ _____ (fraction)
- (27) 37.5% of 80 is _____
- (28) 486 = _____ (Roman Numeral)
- (29) 20% of 5400 = _____
- *(30) $5469 \div 23 =$ _____
- (31) The area of a triangle with sides of 9, 12, and 15 is _____
- (32) The selling price of a \$46 item after a 100% markup is \$ _____
- (33) The number halfway between 8 and 34 is _____
- (34) $97 \times 17 - 94 \times 17 =$ _____
- (35) $45 \times 6 =$ _____
- (36) If a rectangle of area 40 has a width 5, then the perimeter of the rectangle is _____
- (37) $94 \times 93 =$ _____
- (38) $31.4 \times 10^{-3} =$ _____
- (39) The discount on a \$45 football at 20% off is \$ _____
- *(40) $6\frac{1}{3} \times 8651 \div 19 =$ _____
- (41) The supplement of 53° angle is _____ $^\circ$
- (42) $9 \times \frac{3}{4} =$ _____ (mixed number)
- (43) One acre = _____ square miles
- (44) How many subsets does $\{t, m, s, c, a\}$ have? _____
- (45) $(19^2 + 8) \div 15$ has a remainder of _____
- (46) $(85^2 + 7) \div 9$ has a remainder of _____

- (47) $\frac{17}{40} =$ _____ (decimal)
- (48) $21 \times 143 =$ _____
- (49) $2 + 3 + 4 + \dots + 20 =$ _____
- *(50) 43% of 6391 = _____
- (51) The distance between $(2, -3)$ and $(-6, 3)$ is _____
- (52) $8^2 \times 5^5 =$ _____
- (53) $4^4 \times 25^3 =$ _____
- (54) $\sqrt[3]{32768} =$ _____
- (55) $\{p, l, a, n, o\} \cap \{f, r, i, s, c, o\}$ has _____ elements
- (56) The area of a square with diagonal $3\sqrt{2}$ ft.
is _____ sq. ft.
- (57) If $\sqrt{28}$ simplifies as $a\sqrt{b}$, then $a =$ _____
- (58) If $\sqrt{48}$ simplifies as $a\sqrt{b}$, then $a =$ _____
- (59) $25_9 + 87_9 =$ _____ 9
- *(60) $142857 \times 65 =$ _____
- (61) The largest palindrome less than 150 is _____
- (62) $\sqrt{5041} =$ _____
- (63) $929 \times 101 =$ _____
- (64) The slope of the line $x = 3y + 9$ is _____
- (65) The abscissa of the point $(5, -7)$ after a dilation with a scale factor of 3 is _____
- (66) If the y -intercept of $4x + 3y = C$ is 8, then the x -intercept is _____
- (67) $9! \div 8! =$ _____
- (68) $1013 \times 1005 =$ _____
- (69) $10! \div 7! =$ _____
- *(70) The volume of a cube with edge 27 is _____
- (71) $i^{18} =$ _____
- (72) $i^{26} =$ _____
- (73) $51 \times 45 =$ _____
- (74) If $\sqrt[4]{81} = a$ and $a < 0$, then $a =$ _____
- (75) $\log_{100} 10 =$ _____
- (76) $72^2 + 13^2 =$ _____
- (77) The total number of unique diagonals that can be drawn in a nonagon is _____
- (78) If $f(x) = 3x^3 - 5x^2 + 4x - 2$, then $f(2) =$ _____
- (79) The distance between $(-7, 1)$ and $(5, 6)$ is _____
- *(80) $15842 \div 23 =$ _____