

Middle School Number Sense Exam 036, 10/9/2018

- (1) $45^2 =$ _____
- (2) $\frac{1}{2} + \frac{1}{5} =$ _____
- (3) $\frac{1}{4}$ of 23 = _____
- (4) $2\frac{1}{4} =$ _____ %
- (5) $1628 \div 4 =$ _____
- (6) $2017 + 2018 =$ _____
- (7) 20% of 20 is _____
- (8) $497 \times 5 =$ _____
- (9) $18.3 \times 11 =$ _____ (decimal)
- *(10) $1317 + 249 - 781 =$ _____
- (11) $33\frac{1}{3} \times 63 =$ _____
- (12) $75^2 =$ _____
- (13) $XIX + XI =$ _____ (Arabic Number)
- (14) $31 + 9(24 \div 6) =$ _____
- (15) $39 \times 31 =$ _____
- (16) $68 \times 25 =$ _____
- (17) Which larger: $\frac{8}{23}$ or .3? _____
- (18) 23 cm. + 14 mm. = _____ mm.
- (19) $19^2 =$ _____
- *(20) $254 \times 327 =$ _____
- (21) $\frac{5}{7} + \frac{7}{5} =$ _____ (mixed number)
- (22) $72 \times 12\frac{1}{2} =$ _____
- (23) The perimeter of a regular pentagon with side length 8.6 cm is _____ cm
- (24) $8\frac{1}{2} - 5\frac{5}{8} =$ _____ (mixed number)
- (25) $24 \times 4.5 =$ _____
- (26) $28 \times 125 =$ _____
- (27) $8 \times 2 + 4 \div 2 =$ _____
- (28) The GCF of 75 and 105 is _____
- (29) $45 \div 1.25 =$ _____
- *(30) $87 \times 93 \times 13 =$ _____
- (31) $114 \times 102 =$ _____
- (32) 478 meters = _____ hectometers
- (33) 9 is _____ % of 54
- (34) The mean of 36, 32, 32, and 32 is _____
- (35) $87 \times 96 =$ _____
- (36) If the perimeter of a rhombus is 14 in. then one side measures _____ in
- (37) $27 \times 87 =$ _____
- (38) The discount on a \$35 item on sale for 20% off is \$ _____
- (39) $14^2 + 42^2 =$ _____
- *(40) $11 \times 13 \times 15 =$ _____
- (41) $17 \times 24 - 19 \times 17 =$ _____
- (42) 36 has _____ different, positive factors
- (43) $56^2 \div 6$ has a remainder of _____
- (44) The area of a triangle with base 3 and height 9 is _____
- (45) $(78 \times 64) \div 6$ has a remainder of _____
- (46) $(39^2 + 9^2) \div 4$ has a remainder of _____

- (47) $-50^2 =$ _____
- (48) $111^2 =$ _____
- (49) $29 \times 31 =$ _____
- *(50) $19 \times 21 \times 23 =$ _____
- (51) The diagonal of a square with area 121 sq. cm.
is _____ cm.
- (52) $13 \times \frac{16}{19} =$ _____ (mixed number)
- (53) $16^2 + 42^2 =$ _____
- (54) $112 \times 108 =$ _____
- (55) If $6x = 5y$ and $2y = 3z$, then $x =$ _____ z 's
- (56) 0.25 gallon = _____ ounces
- (57) $18 \times \frac{18}{19} =$ _____ (mixed number)
- (58) $.5\bar{1} =$ _____ fraction
- (59) If $f(x) = 13x - 4$, then $f(10) - f(3) =$ _____
- *(60) The volume of a cube with edge 45 is _____
- (61) $5^4 \times 4^3 =$ _____
- (62) If $\sqrt{108}$ simplified is $a\sqrt{b}$, then $a =$ _____
- (63) $999 \times 984 =$ _____
- (64) The ordinate of the y -intercept of the line $16+2y = 4x$ is _____
- (65) If $46_b = 42_{10}$, then $b =$ _____
- (66) The slope of the line passing through $(0, 5)$ and $(2, 6)$ is _____
- (67) $.272727\dots =$ _____ (fraction)
- (68) If the hypotenuse of a right triangle with integers sides is 41, then the perimeter is _____
- (69) If $41_b = 21_{10}$, then $b =$ _____
- *(70) $\sqrt[3]{33000} =$ _____
- (71) If $\sqrt{63}$ simplifies to $a\sqrt{b}$, then $a =$ _____
- (72) If $\log_5 x = 4$, then $x =$ _____
- (73) $.5\bar{4} =$ _____ (fraction)
- (74) If $f(x) = 3x^2 - 18x + 21$ and $g(x) = f(x - 4)$, then $g(x)$ has an axis of symmetry of $x =$ _____
- (75) The number of unique diagonals that can be drawn from a single vertex of an undecagon is _____
- (76) $\sqrt{6\frac{1}{4}} =$ _____ (mixed number)
- (77) $5 + 4 \times 3 \times 2 + 1 \times 0 =$ _____
- (78) If $f(x) = ax^2 + 12x + 4$ has one distinct real root, then $a =$ _____
- (79) $43_5 + 24_5 =$ _____ $_5$
- *(80) $6.22^4 =$ _____