

Middle School Number Sense Exam 025, 11/4/2017

- (1) $2016 \times 11 =$ _____
- (2) $\frac{17}{50} =$ _____ %
- (3) $\frac{17}{15} \times 60 =$ _____
- (4) $\frac{9}{17} - \frac{1}{2} =$ _____
- (5) $7 + 7^2 =$ _____
- (6) $.67 \times 101 =$ _____
- (7) $25\% =$ _____ (fraction)
- (8) $11 \times 972 =$ _____
- (9) $50 \times 98 =$ _____
- *(10) $16 + 26 + 36 + 46 + 56 + 66 - 76 =$ _____
- (11) $600\% =$ _____ (decimal)
- (12) $12 + 8(13 - 9) =$ _____
- (13) $28 \times 22 =$ _____
- (14) $12 \text{ kiloliters} - 400 \text{ liters} =$ _____ liters
- (15) $5 \times 16\frac{3}{5} =$ _____
- (16) $M-CCXX =$ _____ (Arabic Number)
- (17) $95^2 =$ _____
- (18) $75^2 =$ _____
- (19) $\frac{3}{11} =$ _____ % (mixed number)
- *(20) $28\% \text{ of } 18465 =$ _____
- (21) The remainder of $3510 \div 9$ is _____
- (22) The GCF of 18 and 42 is _____
- (23) $(-16)(-2) - (-2) =$ _____
- (24) The selling price of a \$350 item with a 40% markup is \$ _____
- (25) 27% of 64 is 9% of _____
- (26) $75 \times 84 =$ _____
- (27) $324 \times 0.333\dots =$ _____
- (28) $\frac{2}{5}$ of 18 is _____
- (29) $\overline{.39} =$ _____ (fraction)
- *(30) $5.3 \times 8.5 \times 11.7 =$ _____
- (31) The area of a right triangle with a base of 14 and height of 28 is _____
- (32) $45_9 =$ _____ $_{10}$
- (33) $12\frac{1}{2} \times 40 =$ _____
- (34) If x is positive and $x^2 = 36$, then $x^3 =$ _____
- (35) $7\frac{5}{6} \times 7\frac{1}{6} =$ _____ (mixed number)
- (36) The number of subsets in $\{g, o, l, f, i, n\}$ is _____
- (37) If $x = 3$ and $y = 4$, then $x^2 + 2xy + y^2 =$ _____
- (38) $74 \times 34 =$ _____
- (39) $18^2 + 54^2 =$ _____
- *(40) $\sqrt{18000} =$ _____
- (41) $26_{10} =$ _____ $_8$
- (42) $41_{10} =$ _____ $_7$
- (43) $35^\circ \text{Celsius} =$ _____ $^\circ \text{Fahrenheit}$
- (44) $3 \text{ cu. inches} =$ _____ gallons
- (45) An octagon has how many more sides than a quadrilateral? _____
- (46) $10\frac{2}{5} \times 10\frac{3}{5} =$ _____ (mixed number)

- (47) An interior angle of a regular decagon has a measure of _____; °
- (48) A polygon with 44 diagonals has _____ sides
- (49) $\frac{39}{40} =$ _____ (decimal)
- *(50) $\sqrt{8000} =$ _____
- (51) $6^2 + 12^2 =$ _____
- (52) $9^2 + 27^2 =$ _____
- (53) $\sqrt[3]{\frac{343}{27}} =$ _____ (mixed number)
- (54) $42^2 =$ _____
- (55) If $f(x) = x^3 - 3x^2 + 2x + 4$, then $f(4) =$ _____
- (56) What number multiplied by 7 and added to 18 gives the same result? _____
- (57) $\frac{1}{33}$ gallon = _____ cu. inches
- (58) Subtracting 21% of a number from the number is the same as multiplying the number by _____
- (59) $(41 \times 20) \div 6$ has a remainder of _____
- *(60) $\sqrt[3]{20000} =$ _____
- (61) If $45^\circ = a\pi$ radians, then $a =$ _____
- (62) If the x -intercept of $3x + 4y = C$ is 2 then the y -intercept is _____
- (63) The measure of an exterior angle of a regular pentagon is _____ °
- (64) $9^2 + 27^2 =$ _____
- (65) If $f(x) = \frac{16}{x} - 2$, then $f\left(\frac{1}{4}\right) =$ _____
- (66) The sum of the positive integral divisors of 21 is _____
- (67) $7^2 + 49^2 =$ _____
- (68) The acute angle formed by the hands of a clock at 4:20 is _____ °
- (69) The 8th pentagonal number is _____
- *(70) 18 miles = _____ feet
- (71) If $9^x = 55$, then $9^{x+1} =$ _____
- (72) If the surface area of a sphere with radius 8 cm is $a\pi$ sq. cm., then $a =$ _____
- (73) The slope of the line passing through $(1.3, -1)$ and $(3.3, 7)$ is _____
- (74) The total number of unique diagonals that can be drawn in an undecagon is _____
- (75) How many distinct 6-letter arrangements can be made from $\{r, o, b, e, r, t\}$? _____
- (76) If $9\sqrt{x} + 4 = 85$, then $x =$ _____
- (77) The number of ways to arrange five people in a line is _____
- (78) $65^2 + 44^2 =$ _____
- (79) $\cos(60^\circ) =$ _____
- *(80) $\sqrt{280} \times \sqrt{37} =$ _____