

Middle School Number Sense Exam 011, 8/11/2017

- (1) $5672 \div 8 =$ _____
- (2) $13^2 =$ _____ (Roman Numeral)
- (3) $\frac{77}{5} =$ _____ (mixed number)
- (4) $37 \times 101 =$ _____
- (5) $.082 =$ _____ (fraction)
- (6) $5^2 =$ _____ (Roman Numeral)
- (7) $168 + 395 =$ _____
- (8) $12.5 - 3.8 + 6.3 =$ _____
- (9) $\frac{7}{20} =$ _____ %
- *(10) $65 + 87 + 91 - 28 + 72 =$ _____
- (11) $3642 \div 6 =$ _____
- (12) CCC-CCL = _____ (Roman Numeral)
- (13) $7 \times 3994 =$ _____
- (14) 14 grams + 8 centigrams = _____ milligrams
- (15) $38 \times 7 =$ _____
- (16) Which is smaller: $\frac{4}{9}$ or .444? _____
- (17) $29 - 7(24 \div 8) =$ _____
- (18) $9 \times 4\frac{5}{9} =$ _____
- (19) $13 \times 8 \times 25 =$ _____
- *(20) $637 \times 4.3 =$ _____
- (21) $24 \div (-3) + (-2) =$ _____
- (22) $362 \times 111 =$ _____
- (23) $111 \times 83 =$ _____
- (24) 5 feet = _____ inches
- (25) $6\frac{6}{7}\% =$ _____ (fraction)
- (26) The LCM of 22 and 77 is _____
- (27) $4.27 \times 10^{-4} =$ _____
- (28) $4\frac{8}{9}\% =$ _____ (fraction)
- (29) $2\frac{3}{4}$ hours = _____ minutes
- *(30) $4891 \div 17 =$ _____
- (31) $106 \times 109 =$ _____
- (32) $6\frac{2}{3} \times 3\frac{2}{3} =$ _____ (mixed number)
- (33) The GCF of 28 and 12 is _____
- (34) $\sqrt{729} =$ _____
- (35) $3\frac{4}{5} \times 12\frac{4}{5} =$ _____ (mixed number)
- (36) $63_8 =$ _____ ₁₀
- (37) $48 \div \frac{6}{7} =$ _____
- (38) $16\frac{2}{3} \times 36 =$ _____
- (39) $9\frac{3}{8} \times 9\frac{5}{8} =$ _____ (mixed number)
- *(40) $\sqrt{18000} =$ _____
- (41) One square mile = _____ acres
- (42) $7\frac{1}{3} \times 2\frac{1}{3} =$ _____ (mixed number)
- (43) 1 gallon = _____ cu. inches
- (44) If the area of a circle with diameter 1 yard is $a\pi$ sq. yards, then $a =$ _____
- (45) The prime twin of 7 is _____
- (46) $47^2 \div 4$ has a remainder of _____
- (47) If $f(x) = \frac{5}{x} + 2$, then $f\left(\frac{1}{4}\right) =$ _____
- (48) $18\frac{2}{3} \times 2\frac{3}{5} =$ _____ (mixed number)

- (49) $11 \times 84 - 11 \times 24 =$ _____
- *(50) 43% of 7296 is _____
- (51) 40° Celsius = _____ $^\circ$ Fahrenheit
- (52) The area of a square with a diagonal 10 inches is _____ sq. in.
- (53) If $f(x) = 2x^2 + x$, then $f(-2) =$ _____
- (54) $72^2 \div 6$ has a remainder of _____
- (55) The distance between (3, 9) and (-6, -3) is _____
- (56) $7\frac{1}{3} \times 5\frac{1}{3} =$ _____ (mixed number)
- (57) The slope of the line $3x + 2y = 18$ is _____
- (58) $83 \times 41 =$ _____
- (59) $3367 \times 84 =$ _____
- *(60) $3\frac{1}{3} \times 5\frac{7}{8} \times 4\frac{2}{7} \times 2\frac{5}{6} =$ _____
- (61) $23^2 - 21^2 =$ _____
- (62) The simple interest on \$1600 at 5% for 3 years is \$ _____
- (63) $53 \times 47 =$ _____
- (64) If $120^\circ = a\pi$ radians, then $a =$ _____
- (65) $41 \times 72 =$ _____
- (66) The tenth triangular number is _____
- (67) If $(2n - 7)^2 = 4n^2 + an + 49$, then $a =$ _____
- (68) The next term of 1, 8, 27, ... is _____
- (69) The y-coordinate of the midpoint of line segment between (7, 11) and (11, 7) is _____
- *(70) $\sqrt[3]{32000} =$ _____
- (71) The discriminant of $x^2 + 3x - 4 = 0$ is _____
- (72) If the $\sin(45^\circ) = a\sqrt{2}$, then $a =$ _____
- (73) The distance between (-1, 3) and (-5, 0) is _____
- (74) $\frac{7}{11} + \frac{11}{7} =$ _____ (mixed number)
- (75) The slope of the line passing through (-2, -3) and (-6, 5) is _____
- (76) 88 feet per second = _____ miles per hour
- (77) Find the length of a side of a rhombus if the lengths of the two diagonals are 24 and 10. _____
- (78) $i^7 =$ _____
- (79) $2^{-7} =$ _____
- *(80) $3.8^4 =$ _____