

Middle School Number Sense Exam 039, 3/21/2018

- (1) $\frac{1}{3} + \frac{1}{4} =$ _____
- (2) $\frac{9}{17} - \frac{1}{2} =$ _____
- (3) $637 \div 7 =$ _____
- (4) $216 \div 8 =$ _____
- (5) $\frac{3}{5} \times 65 =$ _____
- (6) $25 \times 36 =$ _____
- (7) $126 \div 7 =$ _____
- (8) $19 + 23 + 27 =$ _____
- (9) $21 \div .25 =$ _____
- *(10) 68% of 7777 is _____
- (11) $55^2 =$ _____
- (12) $4\frac{3}{11}\%$ = _____ (fraction)
- (13) $\frac{108}{144}$ written in lowest terms is _____
- (14) $\frac{4}{5} + \frac{1}{3} =$ _____
- (15) $1.01 \times 39 =$ _____ (decimal)
- (16) $5.5 \times 4 =$ _____
- (17) $2147 + 7421 =$ _____
- (18) The mean of 14, 17, and 23 is _____
- (19) $68 \times 48 =$ _____
- *(20) $197 \times 312 =$ _____
- (21) $\frac{8}{20} + \frac{6}{15} + \frac{10}{25} =$ _____
- (22) $8016 \div 9$ has a remainder of _____
- (23) $27 \div 1.5 =$ _____
- (24) 3 pints = _____ gallons
- (25) 84 hours = _____ days
- (26) $98 \times 97 =$ _____
- (27) $21 + 7 \div 3 + 5 \div 3 =$ _____
- (28) 9% of 11 is _____
- (29) $8\frac{4}{7}\%$ = _____ (fraction)
- *(30) $583 \times 959 =$ _____
- (31) $1\frac{3}{4} \times 7\frac{3}{4} =$ _____ (mixed number)
- (32) $83 \times 23 =$ _____
- (33) If 2 cookies cost 36 cents, then a half dozen cookies cost _____ \$
- (34) $94 \times 99 =$ _____
- (35) 81 has how many positive integral divisors? _____
- (36) If $\frac{2}{3}x - 5 = -11$, then $x =$ _____
- (37) The reciprocal of $3\frac{3}{7}$ is _____
- (38) If the area of a circle with diameter 8 cm is $a\pi$ sq. cm., then $a =$ _____
- (39) The median of 6, 1, 3, 4, 8, and 5 is _____
- *(40) $45 \times 142857 =$ _____
- (41) $16\frac{2}{3} \times 48 =$ _____
- (42) The simple interest on \$1200 at 5% for 9 months is \$ _____
- (43) If the area of a circle with diameter 70 ft. is $a\pi$ sq. ft., then $a =$ _____
- (44) 45% of 160 = _____

- (45) The circumference of a circle with radius 3.5 yds. is _____ sq. yds.
- (46) $25_9 =$ _____ $_{10}$
- (47) $1111^2 =$ _____
- (48) $\frac{13}{40} =$ _____ (decimal)
- (49) $\frac{3}{5} + \frac{5}{3} =$ _____ (mixed number)
- *(50) $\sqrt[3]{321478} =$ _____
- (51) $16 \times 27 + 27 \times 14 =$ _____
- (52) $56 \times 19 =$ _____
- (53) If $f(x) = \frac{1}{2}x^2$, then $f(-4) =$ _____
- (54) $48 \div 5.5 =$ _____
- (55) The remainder of $234 \div 90$ is _____
- (56) $993 \times 999 =$ _____
- (57) 130 has _____ unique prime factors
- (58) $130_6 =$ _____ $_{10}$
- (59) The difference between the supplement and the complement of a 9° angle is _____ $^\circ$
- *(60) $\pi^7 =$ _____
- (61) The number of diagonals that can be drawn from one vertex of a pentagon is _____
- (62) $1007 \times 1008 =$ _____
- (63) $5\frac{4}{7} \times 5\frac{3}{7} =$ _____ (mixed number)
- (64) $\frac{1}{6} + \frac{1}{12} + \frac{1}{20} =$ _____
- (65) The y-coordinate of the midpoint between (1, 11) and (8, 19) is _____
- (66) If $x^2 - 5x - 50 = (x + p)(x + q)$ find the lesser of p and q . _____
- (67) If $7\sqrt{x - 4} = 42$, then $x =$ _____
- (68) $.36_7 =$ _____ $_{10}$
- (69) The 13th term of the sequence 2, 8, 14, 20, ... is _____
- *(70) $\pi^9 =$ _____
- (71) The discriminant of $2x^2 + 3x - 4 = 0$ is _____
- (72) $49 \times 143 =$ _____
- (73) The abscissa of the x -intercept of the line $-6x - 5y = -30$ is _____
- (74) $64^2 =$ _____
- (75) $11! \div 8! =$ _____
- (76) $704^2 =$ _____
- (77) The number of positive integral divisors less than 18 that are relatively prime to 18 is _____
- (78) The sum of the complement and the supplement of a 42.5° angle is _____ $^\circ$
- (79) If $x = -5$, then $x^2 + 14x + 49 =$ _____
- *(80) $4.3^5 =$ _____