

Middle School Number Sense Exam 009, 8/2/2017

- (1) $\frac{71}{8} =$ _____ (mixed number)
- (2) $5 \times 44 =$ _____
- (3) $9.6 + 3.7 - 1.3 =$ _____
- (4) $1.4 - 0.7 + 3.3 =$ _____
- (5) Which is smaller: $\frac{6}{7}$ or 0.8? _____
- (6) $3.6 + 7.6 + 1.1 + 5.7 =$ _____
- (7) $9^2 =$ _____
- (8) $5 + 5^2 =$ _____
- (9) $\frac{4}{5} =$ _____ %
- *(10) $31 + 625 + 47 + 186 + 8 =$ _____
- (11) $1 + 3 + 5 + \dots + 11 + 13 =$ _____
- (12) Which of the following is greater: 0.44 or $\frac{1}{2}$? _____
- (13) $7 \times 14\frac{1}{7} =$ _____
- (14) $92 \times 75 =$ _____
- (15) Which is smaller: $-\frac{6}{7}$ or $-\frac{8}{9}$? _____
- (16) $2.73 \times 10^{-2} =$ _____
- (17) $1 + 3 + 5 + 2 + 4 + 6 =$ _____
- (18) $11\frac{5}{9} \times 9 =$ _____
- (19) $4.7 \times 10^4 =$ _____
- *(20) $409 \times 315 =$ _____
- (21) The cost of renting scaffolding for 5 days at \$23.50 per day \$ _____
- (22) $93 \times 98 =$ _____
- (23) $18 \div 1.5 =$ _____
- (24) 18% of 350 is _____
- (25) $6\frac{4}{7} \times 6\frac{3}{7} =$ _____ (mixed number)
- (26) 24 grams + 200 centigrams = _____ Dekagrams
- (27) The mean of 71, 78, 76, 75, and 80 is _____
- (28) $49.6 \times 10^2 =$ _____
- (29) $4 + (-12) + 5 + (-7) =$ _____
- *(30) $4444 \times 77 =$ _____
- (31) $14 \times 94 =$ _____
- (32) $12\frac{1}{2} \times 40 =$ _____
- (33) The sum of the prime factors of 52 is _____
- (34) If $4x + 9 = 20$, then $8x + 18 =$ _____
- (35) The area of a triangle with base 7 ft. and height 8 ft. is _____ sq. ft.
- (36) If one dozen eggs cost \$3.88, then 3 eggs cost \$ _____
- (37) $7\frac{1}{8} \times 7\frac{7}{8} =$ _____ (mixed number)
- (38) $108 \times 104 =$ _____
- (39) The LCM of 12 and 32 is _____
- *(40) $16 \times 17 \times 18 =$ _____
- (41) $\overline{.45} =$ _____ (fraction)
- (42) $50 \times 19 =$ _____
- (43) $362 \times 111 =$ _____
- (44) $\frac{5}{6} + \frac{6}{5} =$ _____ (mixed number)
- (45) The simple interest on \$4000 at 7% interest for 9 months is \$ _____
- (46) 23 quarts = _____ pints

- (47) $\{f, l, i, n, t\}$ has _____ subsets
- (48) 220 yards = _____ miles
- (49) $\{M, A, I, N, E\}$ has _____ subsets
- *(50) $\sqrt[3]{106000} =$ _____
- (51) 450 is 3% of _____
- (52) $\frac{1}{33}$ gallon = _____ cu. inches
- (53) $68^\circ\text{Fahrenheit} =$ _____ $^\circ\text{Celsius}$
- (54) If $23_b = 21_{10}$, then $b =$ _____
- (55) The slope of $-y = -x + 8$ is _____
- (56) $37_{10} =$ _____ $_8$
- (57) $43^2 =$ _____
- (58) If $32_b = 20_{10}$, then $b =$ _____
- (59) If $15_b = 11 + 10$, then $b =$ _____
- *(60) $\pi^7 + \pi^4 =$ _____
- (61) The slope of the line $-2y = 10$ is _____
- (62) The distance between the points $(4, 5)$ and $(-4, -1)$ is _____
- (63) 44 feet per second = _____ miles per hour
- (64) If $x^2 = 31$ and $x < 0$, then $x =$ _____
- (65) $33 \times 14 =$ _____
- (66) $39 \times 41 =$ _____
- (67) 176 feet per second = _____ miles per hour
- (68) $25^\circ\text{Celsius} =$ _____ $^\circ\text{Fahrenheit}$
- (69) The simple interest on \$6000 at 9% interest for 4 months is \$ _____
- *(70) $6.3^3 =$ _____
- (71) If $(3x - 8)(2x + 1) = 6x^2 + ax - 8$, then $a =$ _____
- (72) The sum of the roots of $x^2 - 8x + 4 = 0$ is _____
- (73) $44_6 - 25_6 =$ _____ $_6$
- (74) If the $\cos(30^\circ) = a\sqrt{3}$, then $a =$ _____
- (75) $i^{241} =$ _____
- (76) $51 \times 45 =$ _____
- (77) π radians = _____ $^\circ$
- (78) $\tan(45^\circ) =$ _____
- (79) 30 miles per hour = _____ feet per second
- *(80) $\sqrt[3]{30000} =$ _____