

Middle School Number Sense Exam 008, 7/28/2017

- (1) $\frac{1}{3} =$ _____ %
- (2) $168 \times 25 =$ _____
- (3) $643 - 346 =$ _____
- (4) $286 - 197 =$ _____
- (5) $153 \div 9 =$ _____
- (6) $463 + 195 =$ _____
- (7) $33\frac{1}{3}\%$ of 78 is _____
- (8) $4 \times 299 =$ _____
- (9) $578 \div 8 =$ _____
- *(10) $17 + 37 + 57 + 77 + 97 =$ _____
- (11) Which is smaller: $\frac{5}{22}$ or $\frac{3}{13}$? _____
- (12) $11 + 4 \times 2 - 8 \div 2 =$ _____
- (13) $84 \times 2.5 =$ _____
- (14) $\frac{3}{7} \times \frac{2}{3} \div \frac{2}{5} =$ _____
- (15) $48024 \div 6 =$ _____
- (16) $1 + 3 + 5 + 2 + 4 + 6 =$ _____
- (17) $.9 - \frac{2}{5} =$ _____
- (18) $231 \times 111 =$ _____
- (19) $24.24 + 8.77 - 1.01 =$ _____
- *(20) 37% of 7777 = _____
- (21) If $a = -2$, $b = 3$, and $c = -5$, then $a - b - c =$ _____
- (22) $38 \times 78 =$ _____
- (23) The cost of driving 175 miles at \$0.30 per mile is \$ _____
- (24) $\frac{12}{16} + \frac{9}{12} + \frac{6}{8} =$ _____
- (25) $136 \div 17 =$ _____
- (26) $8 \times 9\frac{5}{8} =$ _____
- (27) The supplement of an 83° angle is _____ $^\circ$
- (28) $9 \times 4\frac{5}{9} =$ _____
- (29) $2 + 4 + 6 + \dots + 18 + 20 =$ _____
- *(30) $\frac{3}{7} \times 64821 \div 3 =$ _____
- (31) If $\frac{4}{5} = \frac{6}{x}$, then $x =$ _____
- (32) $76 \times 25 =$ _____
- (33) The diagonal of a square with side 4 yds. is _____ yds.
- (34) $16\frac{2}{3} \times 36 =$ _____
- (35) 109 nickels = \$ _____
- (36) The reciprocal of $4\frac{1}{3}$ is _____
- (37) $14 \times 94 =$ _____
- (38) $8\frac{3}{8} \times 8\frac{5}{8} =$ _____ (mixed number)
- (39) $5\frac{13}{16} \times 5\frac{3}{16} =$ _____ (mixed number)
- *(40) $14 \times 15 \times 16 =$ _____
- (41) 3 is _____ % of 60
- (42) $52^2 - 48^2 =$ _____
- (43) How many diagonals can be drawn from a single vertex of a undecagon? _____
- (44) $17 \times 24 - 19 \times 17 =$ _____
- (45) The probability of getting a sum of 9 when rolling 2 dice is _____
- (46) $4\frac{5}{6} \times 2\frac{5}{6} =$ _____ (mixed number)

- (47) $132_5 =$ _____ $_{10}$
- (48) $1111^2 =$ _____
- (49) The simple interest on \$15,000 at 2% interest for 4 months is \$ _____
- *(50) $17 \times 18 \times 19 =$ _____
- (51) $2^7 \times 5^5 =$ _____
- (52) The slope of the line passing through (2, 13) and (-4, 7) is _____
- (53) If $\frac{1}{12} + \frac{1}{3} = \frac{1}{x}$, then $x =$ _____
- (54) The diameter of a circle with area 81π sq. cm. is _____ cm.
- (55) The simple interest on \$800 at 6% interest for 2 years is \$ _____
- (56) 1.6 hours = _____ minutes
- (57) $82^2 - 18^2 =$ _____
- (58) If $\sqrt{54}$ simplified is $a\sqrt{b}$, then $b =$ _____
- (59) $\frac{16}{15} \times 16 =$ _____ (mixed number)
- *(60) $\sqrt[3]{24000} =$ _____
- (61) $1111^2 =$ _____
- (62) $114_6 =$ _____ $_{10}$
- (63) 2 cubic yards = _____ cubic ft.
- (64) If $f(x) = 3x^2 - 2x$, then $f(5) =$ _____
- (65) $995 \times 991 =$ _____
- (66) $312_5 - 141_5 =$ _____ $_5$
- (67) $1 + 3 + 5 + \dots + 17 + 19 =$ _____
- (68) If $35_b = 29_{10}$, then $b =$ _____
- (69) $7^2 + 21^2 =$ _____
- *(70) 72% of 209833 = _____
- (71) If $(2n - 1)(n + 3) = 2n^2 + an - 3$, then $a =$ _____
- (72) If $\log_3 x = 4$, then $x =$ _____
- (73) 20% of 90 is 40% of _____
- (74) $83^2 + 22^2 =$ _____
- (75) $35 \times 23 =$ _____
- (76) The odds of rolling a sum ≤ 3 with a pair of dice is _____
- (77) If $a = 7$, then $a^2 - 8a + 16 =$ _____
- (78) If $\log_b 343 = 3$, then $b =$ _____
- (79) If $(6n - 5)(n + 1) = 6n^2 + an - 5$, then $a =$ _____
- *(80) $8.42^3 =$ _____