

Middle School Number Sense Exam 016, 9/4/2017

- (1) $46046 \div 23 =$ _____
- (2) $6464 \div 8 =$ _____
- (3) $723 - 476 =$ _____
- (4) $\frac{5}{11} + \frac{2}{3} =$ _____
- (5) $2016 \times 5 =$ _____
- (6) $\frac{3}{8} =$ _____ (decimal)
- (7) $\frac{17}{25} =$ _____ %
- (8) $\frac{1}{2}$ of 23 = _____
- (9) $15^2 =$ _____
- *(10) $82416 + 32914 + 864 =$ _____
- (11) The median of $-3, -12, -1,$ and -7 is _____
- (12) 3 hectometers + 20 meters = _____ meters
- (13) $25 \times 2800 =$ _____
- (14) $6 \times 12\frac{1}{6} =$ _____
- (15) $94 \times 97 =$ _____
- (16) M-CCXX = _____ (Arabic Number)
- (17) CLV + XXV = _____ (Arabic Number)
- (18) The reciprocal of $-5\frac{7}{8}$ is _____
- (19) $18 + 24 \div 6 + 12 \times 2 =$ _____
- *(20) 64% of 7463 is _____
- (21) $125 \times 2.4 =$ _____
- (22) $9\frac{1}{3}\% =$ _____ (fraction)
- (23) $2\frac{1}{2} \times 44 =$ _____
- (24) $23 \times 7 + 17 \times 7 =$ _____
- (25) $11 + 9 \div 4 + 7 \div 4 =$ _____
- (26) $111 \times 84 =$ _____
- (27) The remainder of $7168 \div 9$ is _____
- (28) $11\frac{2}{3}\% =$ _____ (fraction)
- (29) The median of 5, 9, 13, 12, 6, and 1 is _____
- *(30) $124 \times 381 =$ _____
- (31) $14 \times 28 =$ _____
- (32) $7\frac{11}{12}\% =$ _____ (fraction)
- (33) $7\frac{3}{7} \times 7\frac{4}{7} =$ _____ (mixed number)
- (34) $89 \times 95 =$ _____
- (35) The sale price of a \$18 hammer at 40% off is \$ _____
- (36) The GCF of 32 and 112 is _____
- (37) $2 + 4 + 6 + \dots + 32 =$ _____
- (38) The discount on a \$78 tool at 40% off is \$ _____
- (39) $107 \times 109 =$ _____
- *(40) $16 \times 18 \times 20 =$ _____
- (41) $28 \times 143 =$ _____
- (42) The smallest palindrome larger than 112 is _____
- (43) $26_{10} =$ _____ ₈
- (44) 80 acres = _____ sq. miles
- (45) $(39 \times 43) \div 7$ has a remainder of _____
- (46) If $f(x) = \frac{3}{x}$, then $f(0.5) =$ _____
- (47) $18\frac{2}{3} \times 2\frac{3}{5} =$ _____ (mixed number)

- (48) If $f(x) = \frac{11}{x}$, then $f\left(\frac{1}{9}\right) =$ _____
- (49) $\overline{.06} =$ _____ (fraction)
- *(50) $1428 \times 84 =$ _____
- (51) $24_4 =$ _____ ₁₀
- (52) If $\sqrt{72}$ simplifies as $a\sqrt{b}$, then $a =$ _____
- (53) $84 \times 143 =$ _____
- (54) $54 \times 32 =$ _____
- (55) $\frac{21}{19} \times 21 =$ _____ (mixed number)
- (56) 44 feet per second = _____ miles per hour
- (57) The area of a square with diagonal
6 in. is _____ sq. in.
- (58) If the center of a circle with diameter that has
endpoints (2, 5) and (8, 15) is (h, k) , then $h =$ _____
- (59) If $f(x) = \frac{x}{4}$, then $f(1.5) =$ _____
- *(60) $5.8^4 =$ _____
- (61) If $\sqrt{54} = a\sqrt{b}$ simplifies as $a\sqrt{b}$, then $a =$ _____
- (62) What is the probability of drawing 2 consecutive
hearts from a standard 52-card deck without
replacement? _____
- (63) The distance between (8, 2) and (20, 18) is _____
- (64) $2 + 4 + 6 + \dots + 16 + 18 =$ _____
- (65) $.36_7 =$ _____ ₁₀
- (66) $1003 \times 1008 =$ _____
- (67) $41^2 - 9^2 =$ _____
- (68) The distance between (6, -2) and (9, 2) is _____
- (69) 60 miles per hour = _____ feet per second
- *(70) $\sqrt[3]{550000} =$ _____
- (71) $43^2 + 26^2 =$ _____
- (72) $\frac{11}{13} \times 11 =$ _____ (mixed number)
- (73) The smallest angle formed by the hands of a clock
at 6:10 am is _____ °
- (74) $i^{19} =$ _____
- (75) $3367 \times 18 =$ _____
- (76) $i^{18} =$ _____
- (77) $(9a^3b^2)^2 \div (3ab)^3 =$ _____
- (78) $143 \times 21 =$ _____
- (79) $\sqrt[3]{3\frac{3}{8}} =$ _____
- *(80) The surface area of a sphere with radius 9 mm. is
sq. mm.