

# Middle School Number Sense Exam 048, 10/26/2018

- (1)  $.235 =$  \_\_\_\_\_ %
- (2)  $10 \times 3 + 14 \div 2 =$  \_\_\_\_\_
- (3)  $97 + 655 + 1 =$  \_\_\_\_\_
- (4)  $12^2 =$  \_\_\_\_\_
- (5)  $\overline{.24} =$  \_\_\_\_\_ (fraction)
- (6)  $4.25 + 7 + 3\frac{3}{4} =$  \_\_\_\_\_
- (7)  $3 + 3^2 =$  \_\_\_\_\_
- (8)  $5.8 + 2.04 =$  \_\_\_\_\_ (decimal)
- (9)  $973 - 374 =$  \_\_\_\_\_
- \*(10)  $963 - 1826 + 4279 =$  \_\_\_\_\_
- (11)  $32 \times 75 =$  \_\_\_\_\_
- (12)  $25 \times 92 =$  \_\_\_\_\_
- (13)  $55^2 =$  \_\_\_\_\_
- (14)  $160 \times 125 =$  \_\_\_\_\_
- (15)  $.71 \times 101 =$  \_\_\_\_\_
- (16)  $15 \div 1.25 =$  \_\_\_\_\_
- (17)  $19^2 =$  \_\_\_\_\_
- (18) The GCF of 18, 24, and 48 is \_\_\_\_\_
- (19)  $31 + 9(24 \div 6) =$  \_\_\_\_\_
- \*(20)  $208 \times 507 =$  \_\_\_\_\_
- (21) If  $\frac{5}{x} = \frac{3}{11}$ , then  $x =$  \_\_\_\_\_
- (22) The LCM of 15 and 20 is \_\_\_\_\_
- (23)  $9 \times 4\frac{5}{9} =$  \_\_\_\_\_
- (24) The sum of the smallest 10 positive even integers is \_\_\_\_\_
- (25)  $28 \times 125 =$  \_\_\_\_\_
- (26)  $\frac{12!}{9!} =$  \_\_\_\_\_
- (27) The GCF of 56 and 91 is \_\_\_\_\_
- (28) The mean of 103, 107, 109, and 97 is \_\_\_\_\_
- (29) .065 Hectograms = \_\_\_\_\_ centigrams
- \*(30) 17% of 6821 = \_\_\_\_\_
- (31) If  $-4(x - 6) = 32$ , then  $x =$  \_\_\_\_\_
- (32) If  $\frac{6}{7} = \frac{x}{9}$ , then  $x =$  \_\_\_\_\_
- (33) The number halfway between  $-7$  and  $9$  is \_\_\_\_\_
- (34) The GCF of 52 and 12 is \_\_\_\_\_
- (35)  $2 + 4 + 6 + \dots + 58 + 60 =$  \_\_\_\_\_
- (36)  $13^2 =$  \_\_\_\_\_ (Roman Numeral)
- (37) The complement of a  $31^\circ$  angle is \_\_\_\_\_  $^\circ$
- (38) The mean of 18, 31, and 74 is \_\_\_\_\_
- (39)  $107 \times 109 =$  \_\_\_\_\_
- \*(40)  $8\frac{5}{8} \times 5\frac{2}{3} \times 2\frac{1}{4} =$  \_\_\_\_\_
- (41)  $96 \times 92 =$  \_\_\_\_\_
- (42)  $\frac{5}{6} + \frac{6}{5} =$  \_\_\_\_\_ (mixed number)
- (43) 8% of 75 is 25% of \_\_\_\_\_
- (44)  $\frac{9}{5} + \frac{5}{9} =$  \_\_\_\_\_ (mixed number)
- (45)  $13_8 + 44_8 + 62_8 =$  \_\_\_\_\_  $_8$
- (46)  $47^2 \div 4$  has a remainder of \_\_\_\_\_

- (47) In a regular undecagon, the sum of the interior angles have measure \_\_\_\_\_ °
- (48)  $54_9 =$  \_\_\_\_\_  $_{10}$
- (49) 1 gallon = \_\_\_\_\_ cu. inches
- \*(50)  $7^5 =$  \_\_\_\_\_
- (51) The number of distinct diagonals that can be drawn inside a decagon is \_\_\_\_\_
- (52) The total number of unique diagonals that can be drawn in an octagon is \_\_\_\_\_
- (53)  $2 + 4 + 6 + \dots + 18 + 20 =$  \_\_\_\_\_
- (54)  $\frac{29}{40} =$  \_\_\_\_\_ (decimal)
- (55) 43% of 6 is \_\_\_\_\_ % of 2
- (56)  $12.5 \times 96 =$  \_\_\_\_\_
- (57) The 15th triangular number is \_\_\_\_\_
- (58) The area of an equilateral triangle is  $64\sqrt{3}$  has a side length of \_\_\_\_\_
- (59)  $37_{10} =$  \_\_\_\_\_  $_8$
- \*(60)  $\sqrt[3]{5800} =$  \_\_\_\_\_
- (61) The sum of the positive integral divisors of 21 is \_\_\_\_\_
- (62)  $\sin(30^\circ) =$  \_\_\_\_\_
- (63)  $95 \times 105 =$  \_\_\_\_\_
- (64) If  $4\sqrt{x} + 3 = 19$ , then  $x =$  \_\_\_\_\_
- (65) The 8th pentagonal number is \_\_\_\_\_
- (66)  $8^2 \times 5^5 =$  \_\_\_\_\_
- (67) If  $\sqrt{x-9} = 1$ , then  $x =$  \_\_\_\_\_
- (68) If  $2^2 + 4^2 + 6^2 + 8^2 = 2^2 \times k$ , then  $k =$  \_\_\_\_\_
- (69) The slope of the line passing through (6, 5) and (-2, 1) is \_\_\_\_\_
- \*(70) 900 miles per hour = \_\_\_\_\_ feet per second
- (71) The discriminant of  $x^2 + 2x - 15 = 0$  is \_\_\_\_\_
- (72)  $6\frac{1}{3} \times 9\frac{2}{3} =$  \_\_\_\_\_ (mixed number)
- (73)  $f(x)$  is a parabola with a vertex of (2, -4) and  $g(x) = 5f(x - 4) + 11$ .  $g(x)$  has a vertex of (h, k).  
 $h =$  \_\_\_\_\_
- (74) The number of diagonals that can be drawn from one vertex of an undecagon is \_\_\_\_\_
- (75)  $42_8 - 37_8 =$  \_\_\_\_\_  $_8$
- (76) The odds of rolling a pair of dice getting a sum of 7 is \_\_\_\_\_
- (77)  $i^{123} =$  \_\_\_\_\_
- (78)  $\frac{\pi}{3}$  radians = \_\_\_\_\_ °
- (79) The ordinate of the point (-9, 4) after it is reflected over the  $x$ -axis is \_\_\_\_\_
- \*(80) The number of minutes in November is \_\_\_\_\_