

## Middle School Number Sense Exam 045, 9/21/2018

- (1)  $25 \times 284 =$  \_\_\_\_\_
- (2)  $\frac{3}{11} + \frac{2}{5} =$  \_\_\_\_\_ (fraction)
- (3)  $32.7 \times 11 =$  \_\_\_\_\_
- (4)  $35^2 =$  \_\_\_\_\_
- (5)  $9.6 + 3.7 - 1.3 =$  \_\_\_\_\_
- (6)  $\frac{5}{6} \times 72 =$  \_\_\_\_\_
- (7)  $43 + 57 + 19 =$  \_\_\_\_\_
- (8) 3.4 feet = \_\_\_\_\_ inches
- (9) 26% = \_\_\_\_\_ (fraction)
- \*(10)  $3271 - 1428 + 6312 =$  \_\_\_\_\_
- (11)  $68 \times 25 =$  \_\_\_\_\_
- (12)  $18 \times 24 + 18 \times 16 =$  \_\_\_\_\_
- (13)  $64 \times 45 + 16 \times 45 =$  \_\_\_\_\_
- (14)  $\frac{1}{6}$  sq. ft. = \_\_\_\_\_ sq. inches
- (15)  $4\frac{3}{11}\% =$  \_\_\_\_\_ (fraction)
- (16)  $2016 + 201.6 + 20.16 =$  \_\_\_\_\_ (decimal)
- (17)  $76 \times 74 =$  \_\_\_\_\_
- (18)  $35 \times 14 =$  \_\_\_\_\_
- (19)  $26 - (8 \div 3 + 7 \div 3) =$  \_\_\_\_\_
- \*(20)  $594 \times 288 =$  \_\_\_\_\_
- (21)  $48 \div \frac{8}{9} =$  \_\_\_\_\_
- (22) 16 feet = \_\_\_\_\_ yards
- (23)  $35 \times 42 =$  \_\_\_\_\_
- (24) The reciprocal of 5.6 is \_\_\_\_\_
- (25) The perimeter of an equilateral triangle with side length 14.6 cm is \_\_\_\_\_ cm.
- (26)  $\frac{7}{40} =$  \_\_\_\_\_ (decimal)
- (27)  $4 - 9 - 5 + 11 + 2 =$  \_\_\_\_\_
- (28) If 3 dozen pens cost \$3.96, then 4 pens cost \$ \_\_\_\_\_
- (29)  $103 \times 111 =$  \_\_\_\_\_
- \*(30)  $117 \times 234 =$  \_\_\_\_\_
- (31) 0.5 gallon = \_\_\_\_\_ ounces
- (32) The reciprocal of  $3\frac{1}{5}$  is \_\_\_\_\_
- (33) 68% = \_\_\_\_\_ (fraction)
- (34)  $52 \times 58 =$  \_\_\_\_\_
- (35)  $\{E, A, G, L, e, S\}$  has \_\_\_\_\_ proper subsets
- (36)  $5\frac{2}{3} - 3\frac{3}{4} =$  \_\_\_\_\_ (mixed number)
- (37) If  $4n + 17 = 2n + 65$ , then  $n =$  \_\_\_\_\_
- (38) If the circumference of a circle with radius 6.5 ft. is  $a\pi$  ft., then  $a =$  \_\_\_\_\_
- (39) The supplement of  $36^\circ$  angle is \_\_\_\_\_  $^\circ$
- \*(40)  $\sqrt{21700} =$  \_\_\_\_\_
- (41) The probability of getting a sum of 6 when rolling a pair of dice is \_\_\_\_\_
- (42) The product of the GCF and the LCM of 16 and 8 is \_\_\_\_\_
- (43) 12% of 48 is 36% of \_\_\_\_\_
- (44)  $(33^2 - 5) \div 4$  has a remainder of \_\_\_\_\_
- (45)  $(1 + 3 + 5 + \dots + 39) - (17 + 19 + \dots + 39) =$  \_\_\_\_\_
- (46) 4 ft.  $\times$  12 ft.  $\times$  6 ft. = \_\_\_\_\_ cu. yards

- (47)  $111 \times 28 =$  \_\_\_\_\_
- (48)  $11^3 =$  \_\_\_\_\_
- (49) What number times 8 and subtracted from 72 gives the same result? \_\_\_\_\_
- \*(50)  $25 \times 142857 =$  \_\_\_\_\_
- (51)  $66\frac{2}{3} \times .9 =$  \_\_\_\_\_
- (52)  $213_5 =$  \_\_\_\_\_ <sub>10</sub>
- (53) The 8-th triangular number is \_\_\_\_\_
- (54) The positive geometric mean between 7 and 3 is \_\_\_\_\_
- (55)  $\{N, O, T, R, E\} \cap \{D, A, M, E\}$  has \_\_\_\_\_ elements
- (56)  $3367 \times 21 =$  \_\_\_\_\_
- (57)  $4^3 \times 5^5 =$  \_\_\_\_\_
- (58)  $2^5 \times 5^4 =$  \_\_\_\_\_
- (59)  $\frac{1}{6}$  cubic feet = \_\_\_\_\_ cubic inches
- \*(60)  $4.4^4 =$  \_\_\_\_\_
- (61) The slope of the line  $12x - 6y = 12$  is \_\_\_\_\_
- (62)  $\frac{3}{8} + \frac{8}{3} =$  \_\_\_\_\_ (mixed number)
- (63) The total surface area of a cube with edge 7 yds is \_\_\_\_\_ sq. yds
- (64)  $26^2 =$  \_\_\_\_\_
- (65) The acute angle formed by the hands of a clock at 4:08 is \_\_\_\_\_  $^\circ$
- (66) If  $(x - 8)(2x + 1) = 2x^2 + bx - 8$ , then  $b =$  \_\_\_\_\_
- (67)  $991 \times 992 =$  \_\_\_\_\_
- (68) The ordinate of the  $y$ -intercept of the line  $5x - 2y = 20$  is \_\_\_\_\_
- (69) How many different ways can 5 books be arranged on a shelf? \_\_\_\_\_
- \*(70)  $\sqrt{60000} =$  \_\_\_\_\_
- (71) If  $\log_5 x = 3$ , then  $x =$  \_\_\_\_\_
- (72)  $33 \times 12 - 18 \times 12 =$  \_\_\_\_\_
- (73)  $30^\circ =$  \_\_\_\_\_  $\pi$  radians
- (74) If  $(5a + 2)(a - 9) = 5a^2 + na - 18$ , then  $n =$  \_\_\_\_\_
- (75) The odds of rolling a pair of dice and getting a sum of 3 is \_\_\_\_\_
- (76) 84 has \_\_\_\_\_ unique prime factors
- (77)  $\log_3 7 + \log_3 12 - \log_3 28 =$  \_\_\_\_\_
- (78) What is the probability of obtaining a sum less than 5 when rolling two 6-sided die? \_\_\_\_\_
- (79) A hexahedron has \_\_\_\_\_ vertices
- \*(80)  $4\frac{3}{8} \times 1\frac{6}{7} \times 12\frac{1}{5} =$  \_\_\_\_\_