

# Middle School Number Sense Exam 044, 9/14/2018

- (1)  $25 \times 184 =$  \_\_\_\_\_
- (2)  $27 + 9 \div 3 =$  \_\_\_\_\_
- (3)  $298 + 496 =$  \_\_\_\_\_
- (4)  $\frac{8}{11} \times \frac{5}{4} =$  \_\_\_\_\_ (fraction)
- (5)  $\frac{3}{5} \times 65 =$  \_\_\_\_\_
- (6)  $14 \times 13 =$  \_\_\_\_\_
- (7)  $1814 \div 6$  has a remainder of \_\_\_\_\_
- (8)  $13^2 =$  \_\_\_\_\_ (Roman Numeral)
- (9)  $112 \div 16 =$  \_\_\_\_\_
- \*(10)  $36 + 56 - 46 + 96 + 166 =$  \_\_\_\_\_
- (11)  $4\frac{1}{4} + 3\frac{3}{4} - 3\frac{2}{3} =$  \_\_\_\_\_
- (12)  $646 =$  \_\_\_\_\_ (Roman Numeral)
- (13)  $24 \times 84 =$  \_\_\_\_\_
- (14)  $12 + 16 \div 4 =$  \_\_\_\_\_
- (15)  $\frac{7}{125} =$  \_\_\_\_\_ (decimal)
- (16) CDLXIV = \_\_\_\_\_ (Arabic Number)
- (17)  $36 - 11 \times 2 + 5 =$  \_\_\_\_\_
- (18)  $16\frac{2}{3} \times 18 =$  \_\_\_\_\_
- (19)  $\frac{1}{3}$  of  $\frac{1}{5}$  of  $\frac{1}{3}$  of 135 is \_\_\_\_\_
- \*(20)  $687 \times 296 =$  \_\_\_\_\_
- (21)  $6\frac{4}{7} \times 6\frac{3}{7} =$  \_\_\_\_\_ (mixed number)
- (22)  $-6 - (-12) =$  \_\_\_\_\_
- (23) 84 hours = \_\_\_\_\_ days
- (24) The LCM of 48 and 54 is \_\_\_\_\_
- (25)  $8 + (-5) - (-13) + 21 =$  \_\_\_\_\_
- (26)  $56 \times 12\frac{1}{2} =$  \_\_\_\_\_
- (27)  $\sqrt{324} =$  \_\_\_\_\_
- (28)  $7 \div 3\frac{1}{3} =$  \_\_\_\_\_
- (29) If 3 pens cost \$3.15, then 10 pens cost \$ \_\_\_\_\_
- \*(30)  $6253 \div 27 =$  \_\_\_\_\_
- (31)  $12\frac{1}{3} \times 12\frac{2}{3} =$  \_\_\_\_\_ (mixed number)
- (32)  $9\frac{3}{5} \times 9\frac{2}{5} =$  \_\_\_\_\_ (mixed number)
- (33)  $107 \times 109 =$  \_\_\_\_\_
- (34) The measure of an angle complementary to a  $49^\circ$  angle is \_\_\_\_\_  $^\circ$
- (35) The additive inverse of  $-\frac{1}{3}$  is \_\_\_\_\_
- (36) If 19 pencils cost \$3.80, then two dozen pencils cost \$ \_\_\_\_\_
- (37)  $18^2 + 54^2 =$  \_\_\_\_\_
- (38) If  $\frac{8}{5} = \frac{a}{9}$ , then  $a =$  \_\_\_\_\_
- (39)  $84 \times 86 =$  \_\_\_\_\_
- \*(40)  $\pi^8 =$  \_\_\_\_\_
- (41)  $\frac{5}{9} + \frac{9}{5} =$  \_\_\_\_\_ (mixed number)
- (42)  $\{c, o, r, i, n, t, h\}$  has \_\_\_\_\_ subsets
- (43) 8 acres = \_\_\_\_\_ sq. miles
- (44)  $33_5 =$  \_\_\_\_\_ <sub>10</sub>
- (45)  $143 \times 91 =$  \_\_\_\_\_
- (46) 8% of 18 is 36% of \_\_\_\_\_
- (47)  $2 \text{ ft.} \times 7 \text{ ft.} \times 27 \text{ ft.} =$  \_\_\_\_\_ cu. yards

- (48) If  $\frac{1}{4} - \frac{1}{7} = \frac{1}{x}$ , then  $x =$  \_\_\_\_\_
- (49)  $29^2 - 11^2 =$  \_\_\_\_\_
- \*(50)  $\sqrt{16000} =$  \_\_\_\_\_
- (51)  $12.5 \times 32 =$  \_\_\_\_\_
- (52) If  $\sqrt{363}$  simplifies as  $a\sqrt{b}$ , then  $a =$  \_\_\_\_\_
- (53) If  $3x = 7y$ , and  $4y = 5z$ , then  $x =$  \_\_\_\_\_  $z$ 's
- (54)  $\sqrt[3]{1728} =$  \_\_\_\_\_
- (55) If  $f(x) = 9x + 13$ , then  $f(11) - f(3) =$  \_\_\_\_\_
- (56)  $23_5 + 4_5 =$  \_\_\_\_\_  $_5$
- (57)  $\frac{7}{12} + \frac{12}{7} =$  \_\_\_\_\_ (mixed number)
- (58) 1.75 gallons = \_\_\_\_\_ quarts
- (59)  $988 \times 994 =$  \_\_\_\_\_
- \*(60)  $\sqrt{438} + \sqrt{107} =$  \_\_\_\_\_
- (61)  $2^6 \times 5^5 =$  \_\_\_\_\_
- (62) The acute angle formed by the hands of a clock at 2:12 is \_\_\_\_\_  $^\circ$
- (63) The largest palindrome less than 211 is \_\_\_\_\_
- (64)  $68^\circ$  Fahrenheit = \_\_\_\_\_  $^\circ$  Celsius
- (65) The total number of unique diagonals that can be drawn in a heptagon is \_\_\_\_\_
- (66) The largest prime factor of 78 is \_\_\_\_\_
- (67) If  $45_b = 33_{10}$ , then  $b =$  \_\_\_\_\_
- (68)  $794 \times 101 =$  \_\_\_\_\_
- (69)  $995 \times 981 =$  \_\_\_\_\_
- \*(70) The surface area of a sphere with radius 10 is \_\_\_\_\_
- (71)  $1011_2 + 101_2 =$  \_\_\_\_\_  $_2$
- (72) The distance between (5, 6) and (-1, -2) is \_\_\_\_\_ units
- (73) If  $6\sqrt{2x+1} = 78$ , then  $x =$  \_\_\_\_\_
- (74)  $(a^2b^3c)^3 \times (4abc)^2 =$  \_\_\_\_\_
- (75) The selling price of a \$200 item on sale for 40% off is \$ \_\_\_\_\_
- (76)  $996 \times 991 =$  \_\_\_\_\_
- (77)  $.1\bar{8} =$  \_\_\_\_\_ (fraction)
- (78) The largest palindrome smaller than 150 is \_\_\_\_\_
- (79)  $28^2 + 78^2 =$  \_\_\_\_\_
- \*(80)  $5.3 \times 4.7 \times 1.3 =$  \_\_\_\_\_