



## Number Dojo Elementary School Number Sense Test 18.01

**Instructions:** Use only a PEN (no pencils allowed). Give yourself 10 minutes to complete as many problems as you can, in the order they appear. All problems are to be solved mentally; make **no calculations with calculator or paper and pencil**. Starred \*() problems require approximate INTEGRAL answers that are within 5% of the exact answers. Write only the answer in the space provided. **No scratch work, mark-outs, or mark-overs are allowed**. Answers with a \$ require 2 decimal places. You will earn 5 points for every correct answer, less 4 points for every skipped or incorrect answer.

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|---|---|
| (1) $63 + 37 =$ _____                                 | (21) $98 \times 97 =$ _____                                   |
| (2) $63 - 37 =$ _____                                 | (22) $\frac{2}{9} + \frac{4}{9} =$ _____ (fraction)           |
| (3) $6 \times 3 =$ _____                              | (23) $4 + 16 \div 2 =$ _____                                  |
| (4) $63 \div 7 =$ _____                               | (24) 3 minutes = _____ seconds                                |
| (5) Which digit is in the tens place in 143.79? _____ | (25) $35 \times 45 =$ _____                                   |
| (6) $4 \times 100 + 9 \times 10 + 3 \times 1 =$ _____ | (26) $26 \times 24 =$ _____                                   |
| (7) Round 3.14159 to the hundredths place. _____      | (27) The largest prime less than 40 is _____                  |
| (8) $3636 \div 4 =$ _____                             | (28) $19 \times 21 =$ _____                                   |
| (9) $3 \times 4 \times 5 =$ _____                     | (29) Which is greater, $\frac{2}{5}$ or $\frac{1}{3}$ ? _____ |
| * (10) $99 \times 31 =$ _____                         | * (30) $332 \times 48 =$ _____                                |
| (11) $11 \times 24 =$ _____                           | (31) $36\% =$ _____ (fraction)                                |
| (12) $17 + 20 + 23 =$ _____                           | (32) The smallest prime factor of 48 is _____                 |
| (13) $2017 \div 5$ has a remainder of _____           | (33) 3 nickels + 3 quarters = _____ ¢                         |
| (14) MMXVII = _____ (Arabic numeral)                  | (34) $\frac{3}{4} \div \frac{3}{8} =$ _____                   |
| (15) $50 \times 24 =$ _____                           | (35) 6 is to 10 as _____ is to 25                             |
| (16) $25 \times 24 =$ _____                           | (36) If 3 pens cost \$3.33, then 10 pens cost \$ _____        |
| (17) 52 minus what is 7? _____                        | (37) The GCF of 14 and 21 is _____                            |
| (18) There are _____ odd numbers between 14 and 38.   | (38) $\frac{9}{10} - \frac{4}{10} =$ _____ (fraction)         |
| (19) $15 \times 24 =$ _____                           | (39) $(19 \times 21 + 23) \div 5$ has a remainder of _____    |
| * (20) $173 + 203 + 233 =$ _____                      | * (40) $39 \times 40 + 41 =$ _____                            |

- (41) If  $y = 2$  and  $x = 3$ , then  $2x + 3y =$  \_\_\_\_\_
- (42)  $\frac{3}{4} + \frac{4}{3} =$  \_\_\_\_\_ (mixed number)
- (43) The LCM of 14 and 21 is \_\_\_\_\_
- (44) The perimeter of a square with a side length of 7 is \_\_\_\_\_
- (45)  $3\frac{1}{3} \times 3\frac{2}{3} =$  \_\_\_\_\_
- (46)  $3\frac{1}{3} \times 6\frac{1}{3} =$  \_\_\_\_\_
- (47) The next term of the sequence 1, 5, 9, 13, ... is \_\_\_\_\_
- (48)  $\sqrt{256} =$  \_\_\_\_\_
- (49) The radius of a circle with a diameter of 6 is \_\_\_\_\_
- \*(50) 51% of 5151 = \_\_\_\_\_
- (51) A triangle with base 7 and height 12 has an area of \_\_\_\_\_
- (52)  $4\frac{1}{3} + 1\frac{1}{6} =$  \_\_\_\_\_ (mixed number)
- (53)  $0.38 =$  \_\_\_\_\_ (fraction)
- (54)  $\{s,e,t\} \cup \{i,n,T,E,r,s,e,c,t\}$  has \_\_\_ elements
- (55)  $111 \times 314 =$  \_\_\_\_\_
- (56)  $37_9 =$  \_\_\_\_\_<sub>10</sub>
- (57) 2 gallons = \_\_\_\_\_ quarts
- (58) A trapezoid with bases 8 and 12 and height 5 has area \_\_\_\_\_
- (59)  $28 \times 143 =$  \_\_\_\_\_
- \*(60)  $\frac{3}{4}$  of 7999 = \_\_\_\_\_
- (61) The additive inverse of 1.5 is \_\_\_\_\_
- (62) The reciprocal of 1.5 is \_\_\_\_\_ (fraction)
- (63) A rectangle with area 24 and height 3 has width \_\_\_\_\_
- (64) A cube with edge 2 has surface area \_\_\_\_\_
- (65) The volume of a 3 x 4 x 5 prism is \_\_\_\_\_
- (66)  $3^2 + 2^1 + 1^0 =$  \_\_\_\_\_
- (67)  $17 - 20 + 23 =$  \_\_\_\_\_
- (68)  $4^3 =$  \_\_\_\_\_
- (69)  $18_{10} =$  \_\_\_\_\_<sub>4</sub>
- \*(70)  $29 \times 51 + 31 \times 49 =$  \_\_\_\_\_
- (71)  $12.5 \times 48 =$  \_\_\_\_\_
- (72) A rhombus with diagonals 4 and 6 has an area of \_\_\_\_\_
- (73)  $46^2 =$  \_\_\_\_\_
- (74) If  $2x - 3 < 9$ , then  $x <$  \_\_\_\_\_
- (75) The number halfway between -7 and 3 on a number line is \_\_\_\_\_
- (76) The probability of rolling a pair with 2 six-sided dice is \_\_\_\_\_
- (77) 40% of 18 is 30% of \_\_\_\_\_
- (78) The interior angle of a rectangle is \_\_\_\_\_°
- (79)  $12^2 + 36^2 =$  \_\_\_\_\_
- \*(80)  $17 \times 20 \times 23 =$  \_\_\_\_\_