

Eighth Grade Computation Sample Test

1)  $0.214312 \div 6.23 =$

2)  $\frac{49}{35} \times \frac{70}{3} \times \frac{12}{44} =$

3)  $4 + 6 - |3| + 2 =$

4)  $-8 - (-5) - 4 + 3 + (-2) - 8 + |11| - |-3| =$

5)  $\frac{0.0047592}{0.0018} =$

6)  $(2)(-6)(4) =$

7)  $13\frac{3}{5} - 2\frac{7}{8} =$

8)  $15\frac{1}{3} - 7\frac{4}{5} =$

9)  $47.123 + 8.416 + 705.4 =$

10)  $-|10 - 6| =$

11)  $\frac{-3-2}{-2+8-6} =$

12)  $4(6 - 2 + 5 - 7) =$

13)  $\frac{\frac{-2}{3}}{\frac{4}{9}} = \frac{1}{3} \text{ (Solve for } x\text{)}$

14) Solve for  $x$ .  $-9x - 4 = 5$

15)  $-[-(+3)] - (-2) - 4 + (-6) =$

16)  $\frac{1}{5} \left( 2\frac{1}{2} \times \frac{1}{6} - \frac{1}{3} \times \frac{5}{4} \right) =$

17) Solve for  $x$ .

$$4x + 5 + 3x - x = -7x - 8$$

18) Evaluate:  $a^2b + \frac{b}{a^2}$

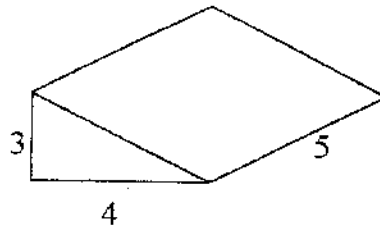
if  $a = -4$  and  $b = 2$

19) 90% of  $N = 261$   $N =$

20)  $(-8)(-2) + (-8)^2 =$

Eighth Grade Reasoning Sample Test

- 1) Seventy percent of the boys did not play soccer. If 56 boys did not play soccer, how many boys were there in all?
- 2) The ratio of the number of Philistine soldiers to the number of Israelite soldiers was 21 to 2. If 92,000 soldiers were present, how many were Israelite soldiers?
- 3) What is the volume of this triangular prism?



- 4) A red die and a blue die are rolled. What is the probability of getting both a 6 on the red die and a 4 on the blue die?
- 5) Beatrice traveled the last 220 miles of the trip at 55 miles per hour. The entire trip covered 430 miles and took 7 hours. What was her rate for the first 210 miles?
- 6) The area of a rectangle is 42 square feet. The length of one side is 6 feet. What is the perimeter of the rectangle?
- 7) The radius of a circle is 7 centimeters. What is the circumference of the circle?  
(Use  $\pi = 3.14$ )

- 8)  $AB$  is  $7\frac{2}{3}$  units.  $AC$  is  $9\frac{3}{4}$  units. Find  $BC$ .



- 9) What is the reciprocal of -3?

- 10) Find a number such that 8 times the number is 36 greater than the opposite of the number.
- 11) Write the Roman numeral for 29.
- 12) Twenty percent of what number is 163?
- 13) Mike makes \$259.73 during the first period. John made three times that amount during the second period. During the third period Jane made twice the amount that John made. What was the total amount made during the three periods?
- 14) Two thousand, three hundred twelve bolts can be put into one box. If there are forty-three thousand, eight hundred sixty-three bolts in all, how many boxes are necessary to hold them?
- 15) Find the mean temperature if it was  $73^{\circ}$  on Friday,  $67^{\circ}$  on Saturday,  $76^{\circ}$  on Sunday,  $70^{\circ}$  on Monday, and  $63^{\circ}$  on Tuesday.

### 8<sup>th</sup> Grade Computation Key

- 1) 0.0344
- 2)  $8\frac{10}{11}$
- 3) 9
- 4) -6
- 5) 2.644i
- 6) -48
- 7)  $10\frac{29}{40}$
- 8)  $7\frac{8}{15}$
- 9) 760.939
- 10) -4
- 11) undefined,  $\frac{-5}{0}$
- 12) 8
- 13)  $\frac{-2}{9}$
- 14) -1
- 15) -5
- 16) 0
- 17) -1
- 18)  $\frac{257}{8}$  or  $32\frac{1}{8}$
- 19) 290
- 20) 80

### 8<sup>th</sup> Grade Reasoning Key

- 1) 80 boys
- 2) 8,000 Israelite soldiers
- 3) 30
- 4)  $\frac{1}{36}$
- 5) 70 mph
- 6) 26 ft.
- 7) 43.96 cm
- 8)  $2\frac{1}{12}$
- 9)  $-\frac{1}{3}$
- 10) 4
- 11) XXIX
- 12) 815
- 13) \$2,597.30
- 14) 19 boxes
- 15)  $69.8^\circ$