CUMULATIVE TEST – PRACTICE TEST
REVIEW OF PRE ALGEBRA A

The following cumulative test is a review of topics from the Pre Algebra A course.

Questions are very basic, so that the focus is on the concept itself rather than lengthy calculations.

Please show any necessary work as well as your answers.

Please answer questions 1 - 25. (4 points each)

1) \( \frac{4}{3} + \frac{5}{5} = \) _________

2) \( \frac{3}{3} \times \frac{1}{4} = \) _________

3) \( 68.5 - 10.92 = \) _________

4) \( 12.3 \div 0.5 = \) _________

5) Convert 0.45 into a fraction in simplest form. _________

6) Convert \( \frac{3}{5} \) into a decimal. _________
7) What is the next term: 4, 3, 9, 8, 24, ...  

8) Simplify the expression: 40 – (3 + 3 × 4) ÷ 5

9) -18 – (-16) =  

10) 50 ÷ -5 =  

11) 20 + -11 =  

12) -6 × -7 = 

13) Write the inequality shown by:

   \[ | | | | | \]  
   -3 -2 -1 0 1  

14) Translate the following sentence:
   “18 subtracted from a number Z is equal to 4.”

15) Solve the following equation for “x”
   \[ x + 23 = -8 \]

16) Solve the following equation for “x”
   \[ -5x = 60 \]
17) Complete the following conversion:

24 fl oz = __?__ cups

18) Complete the following conversion:

28.4 KL = __?__ L

19) Find the median of the following list of numbers:

20, 10, 14, 25, 31, 11

20) A bag contains 10 red pens, 12 blue pens, and 8 black pens. What is the probability that someone will randomly select a black pen?

21) Find the area of the rectangle:

4 cm

12 cm

22) Aaron buys 6 pencils for $3.30. What is the unit price?

23) Solve the following proportion:

\[ \frac{x}{9} = \frac{10}{3} \]
24) 35 is 40% of what number? _______

25) If Rachel uses a 15% off coupon to purchase a sweater marked $45.00, what is the new price? _______

**EXTRA CREDIT #1) (2 points)**

This question will involve mixed numbers.

**EXTRA CREDIT #2) (2 points)**

This problem will involve a translation.

**EXTRA CREDIT #3) (2 points)**

This problem will involve percents in equations.