Pre-Algebra B – Review Worksheet #3

How much do you remember about measurements, central tendencies, using formulas, and probability?

1) Convert the following measurements:
   a) 450 mL = \( \frac{0.45}{\text{L}} \)  
   b) 3.6 Kg = \( \frac{3,600}{\text{g}} \)  
   c) 3,980 cm = \( \frac{39.8}{\text{m}} \)  
   d) 0.4 Km = \( \frac{400,000}{\text{mm}} \)  
   e) 42 ft = \( \frac{14}{\text{yd}} \)  
   f) 8 lb = \( \frac{128}{\text{oz}} \)  
   g) 22 gal = \( \frac{88}{\text{qt}} \)  
   h) 7 hr = \( \frac{420}{\text{min}} \)

2) Find the mean, median, mode, and range of the following list:
   21, 30, 9, 17, 14, 50, 20, 39, 5, 25  \( \text{total} = 230 \)
   \( \text{items} = 10 \)

   - Mean: 23
   - Median: 20.5
   - Mode: none
   - Range: 45

3) A basket contains 24 red balls, 40 green balls, and 16 yellow balls. Find the probabilities when one ball is chosen at random.
   \( \text{total} = 80 \)
   a) \( \text{P(green)} = \frac{40}{80} \rightarrow \frac{1}{2} \)
   b) \( \text{P(yellow)} = \frac{16}{80} \rightarrow \frac{1}{5} \)
   c) \( \text{P(purple)} = \frac{0}{80} \rightarrow \) none
   d) \( \text{P(not yellow)} = \frac{64}{80} \rightarrow \frac{4}{5} \)
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4) Find the area of the rectangle.

\[ A = \ell \times w \]
\[ A = (45 \times 18) \]
\[ A = 810 \]

\[ A = 810 \text{ m}^2 \]

5) Find the circumference of the circle.

\[ C = 2\pi r \]
\[ C = 2(3.14)(8) \]
\[ C = 50.24 \text{ in} \]

6) Find the area of the triangle.

\[ A = \frac{1}{2} \times b \times h \]
\[ A = \frac{1}{2} (20)(11) \]
\[ A = 110 \]
\[ A = 110 \text{ ft}^2 \]