

Quiz

1. Classify each of the following as a ratio, rate, unit rate or proportion. Explain why it is a ratio, rate, unit rate, or proportion.

a. $\frac{64 \text{ inches}}{72 \text{ inches}}$

b. $\frac{55 \text{ miles}}{1 \text{ hour}}$

c. $\frac{0.7}{9.8} = \frac{3.6}{n}$

d. $\frac{344 \text{ miles}}{16 \text{ gallons}}$

e. $\frac{50 \text{ miles}}{4 \text{ gallons}} = \frac{25 \text{ miles}}{2 \text{ gallons}}$

2. If you weighed 120 pounds on Earth you would weigh 20 pounds on the Moon. What would a bowling ball weigh on the Moon if it weighs 16 pounds on Earth? Be sure to show your work.

3. Evaluate $y^2 + 2x - 1$; $x = -1$ and $y = -2$

4. Evaluate $3x^2 - y^2 - x$; $x = -2$ and $y = -3$