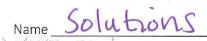
Introduction to Rates and Ratios





- Write the ratio in lowest terms, then write it in the other two forms.

Lowest Terms: 3

Other Forms: 3 to 4 3:4

b. 10 to 15

Lowest Terms: 2 to 3 Other Forms: $\frac{2}{3}$ 2:3

c. 26:12

Lowest Terms: 13:6

Other Forms: 13 to 6

Write the rate as a unit rate.

a.
$$\frac{450 \text{ miles}}{18 \text{ gallons}} = 25 \text{ miles per gallon (mpg)}$$

d.
$$\frac{260 \text{ miles}}{4 \text{ hours}} = 65 \text{ miles per hour (mph)}$$

b.
$$\frac{5 \text{ feet}}{2 \text{ seconds}} = 2.5 \text{ feet per second}$$

e.
$$\frac{\$14.95}{5 \text{ pounds}} = \frac{\$2.99}{6}$$

c.
$$\frac{228 \text{ calories}}{6 \text{ ounces}} = 38 \text{ calories}$$

f.
$$\frac{$390}{40 \text{ hours}} = $9.75 / hv$$

\$ 9.75 per hour

- 3. There are 45 members in a marching band. Fifteen play the trumpet, 12 play the drums, 6 play the French horn, 3 play the saxophone, 2 play the tuba, and 1 plays the cymbals.
 - a. What is the ratio of trumpet players to saxophone players? Write your answer in lowest terms.

b. What is the ratio of trumpet players to band members? Write your answer in lowest terms.

15: 45
$$\frac{15}{46} = \frac{1}{3}$$

What is the ratio of tuba players to drum players? Write your answer in lowest terms.