

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

a. $\frac{12}{16}$ Lowest Terms: $\frac{3}{4}$ 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: $\frac{13}{6}$ 13 to 6

2. 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. $\frac{\$14.95}{5 \text{ pounds}} = \$2.99/\text{lb}$
\$2.99 per lb

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

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

$15:3$, $5:1$ $\frac{15}{3} = \frac{5}{1}$

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

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

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

$2:12$, $1:6$ $\frac{1}{6}$