

RATIOS, RATES AND PROPORTIONS

ADDITIONAL PRACTICE PROBLEMS

Write as ratios in simplest form:

1. 10 feet to 25 feet

2. \$15 to \$45

3. 95 lbs to 15 lbs

4. 40 ml to 25 ml

5. 8 oz to 2 oz

6. 100 inches to 250 inches

Write as rates in simplest form:

1. 20 miles in 2 hours

2. 75 cents for 3 tickets

3. 20 lbs of meat for \$5

4. 30 pts in 4 games

5. 180 miles in 8 days

6. 36 hours in 1.5 days

Determine if the proportions are True or False.

1. $\frac{1}{8} = \frac{3}{24}$

2. $\frac{5}{9} = \frac{10}{14}$

3. $\frac{8}{9} = \frac{16}{18}$

4. $\frac{3}{4} = \frac{12}{16}$

5. $\frac{6}{5} = \frac{7}{9}$

6. $\frac{5}{8} = \frac{20}{32}$

Solve for the unknown:

1. $\frac{n}{10} = \frac{5}{50}$

2. $\frac{n}{8} = \frac{3}{4}$

3. $\frac{5}{n} = \frac{15}{18}$

4. $\frac{4}{3} = \frac{12}{n}$

5. $\frac{3}{2} = \frac{n}{6}$

6. $\frac{21}{12} = \frac{n}{4}$

RATES, RATIOS AND PROPORTIONS

ANSWERS TO ADDITIONAL PRACTICE PROBLEMS

Write as ratios in simplest form:

1. $\frac{10}{25} = \frac{2}{5}$

2. $\frac{15}{45} = \frac{1}{3}$

3. $\frac{95}{15} = \frac{19}{3}$

4. $\frac{40}{25} = \frac{8}{5}$

5. $\frac{8}{2} = \frac{4}{1}$

6. $\frac{100}{250} = \frac{2}{5}$

Write the rates in simplest form:

1. $\frac{20 \text{ miles}}{2 \text{ hours}} = \frac{10 \text{ miles}}{1 \text{ hour}}$

2. $\frac{75 \text{ cents}}{3 \text{ tickets}} = \frac{25 \text{ cents}}{1 \text{ ticket}}$

3. $\frac{20 \text{ lbs}}{\$5} = \frac{4 \text{ lbs}}{\$1}$

4. $\frac{30 \text{ pts}}{4 \text{ games}} = \frac{15 \text{ pts}}{2 \text{ games}}$

5. $\frac{180 \text{ miles}}{8 \text{ days}} = \frac{45 \text{ miles}}{2 \text{ days}}$

6. $\frac{36 \text{ hours}}{1.5 \text{ days}} = \frac{36 \text{ hours}}{15 \text{ days}} = \frac{24 \text{ hrs}}{1 \text{ day}}$

Determine if the proportions are True or False:

1. $24 = 24$ True

2. $90 = 70$ False

3. $144 = 144$ True

4. $48 = 48$ True

5. $54 = 35$ False

6. $160 = 160$ True

Solve for the unknown:

1. $n = 1$

2. $n = 6$

3. $n = 6$

4. $n = 9$

5. $n = 9$

6. $n = 7$