

# Worksheet 4.1

## Ratio and Proportion.

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Find fractional notation for the ratio. You need not simplify. See examples on page 205 in text.

1. 4.2 to 16

A)  $\frac{20.2}{16}$       B)  $\frac{16}{4.2}$       C)  $\frac{4.2}{16}$       D)  $\frac{16}{20.2}$

2. A baseball team has played 9 games so far this season. The team won 3 games. Find the ratio of games lost to games won.

A)  $\frac{3}{6}$       B)  $\frac{6}{3}$       C)  $\frac{9}{3}$       D)  $\frac{3}{9}$

Simplify the ratio. See examples on page 206 in text.

3. 45 to 95

A)  $\frac{45}{19}$       B)  $\frac{9}{19}$       C)  $\frac{45}{95}$       D)  $\frac{9}{95}$

Find the rate as a ratio of distance to time. See examples on page 206 in text.

4. 630 m, 45 sec

A)  $59\frac{\text{m}}{\text{sec}}$       B)  $45\frac{\text{m}}{\text{sec}}$       C)  $14\frac{\text{m}}{\text{sec}}$       D)  $630\frac{\text{m}}{\text{sec}}$

Find the indicated rate. See examples on page 206 in text.

5. If Allison's company charged \$213.04 for 8 hours of work, how much did they charge per hour?

A) \$34.63 / hour      B) \$8.00 / hour      C) \$26.63 / hour      D) \$30.43 / hour

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Determine whether the pairs of numbers are proportional. See examples on pages 206-207 in text.

6. 24, 18 and 4, 3

A) Yes      B) No

Solve. Give your answer as a mixed number if necessary. See examples on pages 207-208 in text.

7.  $\frac{36}{180} = \frac{13}{x}$

A) 2304      B)  $\frac{1}{65}$       C)  $\frac{468}{180}$       D) 65

Solve. Give your answer as a mixed number if necessary. See examples on pages 208-209 in text.

8.  $\frac{0.37}{t} = \frac{0.4}{0.13}$

A) 0.12025      B) 3.7      C) 0.1138      D) 1.138

9.  $\frac{\frac{1}{12}}{\frac{1}{3}} = \frac{1}{t}$

A)  $1\frac{1}{3}$       B)  $\frac{1}{4}$       C) 12      D)  $\frac{3}{4}$

Use a proportion to solve the problem. See examples on pages 209-210 in text.

10. On Anne's bicycle, the ratio of pedal turns to rear-wheel turns in second gear is 4 to 7. If her rear wheel turns 973 times per mile, how many times does the turn the pedal in one mile.

A) 556 times      B) 977 times      C) 1702.8 times      D) 980 times