

Ratio and Proportion**Review 7.1****EX 1: Converting Units.**

1) $\frac{12 \text{ cm}}{4 \text{ m}}$

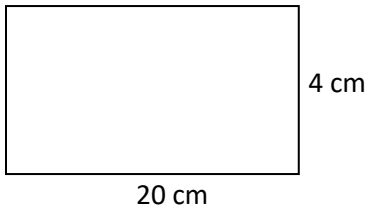
2) $\frac{3 \text{ yd.}}{6 \text{ ft.}}$

3) A flagpole is 18 ft. tall. A golf flag is 48 in.

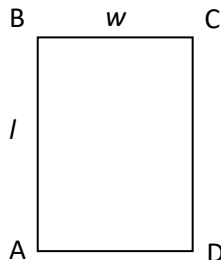
EX 2: Writing Ratios.

4) Find the width to length ratio of each rectangle. Then simplify the ratio.

5) $\frac{224}{476}$



6) The senior class has 560 students. Write the ratio of boys to girls in simplest form if there are 268 girls.

EX 3: Using Ratios.7) The perimeter of rectangle $ABCD$ is 60 cm. The ratio of $AB:BC$ is 3:2. Find the length and width of the rectangle.

8) Two complementary angles have a ratio of 11: 4. Find the measures of the two angles.

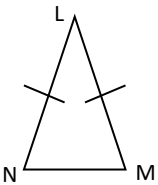
9) You are helping to decorate the gym for the homecoming dance. There must be a ratio of 5 black balloons to every 7 gold balloons. If you ordered 216 balloons. How many black balloons will be in the gym?

EX 4: Extended Ratios (Comparing more than two items)

10) The measure of the angles in $\triangle JKL$ are in the extended ratio of 1:2:3. Find the measures of the angles.

11) The measures of the angles in a triangle are in the extended ratio 3:4:8. Find the measures of the angles.

12) The perimeter of the isosceles triangle shown is 56 in. The ratio of $LM:MN$ is 5:4. Find the lengths of the sides and the base of the triangle.

**EX 5: Solving Proportions.**

13) Solve: $\frac{2}{7} = \frac{6}{x}$

14) Solve: $\frac{x-6}{4} = \frac{x}{10}$

15) $\frac{x-9}{15} = \frac{2x-9}{10}$

16) $\frac{x-16}{x+6} = \frac{3}{5}$