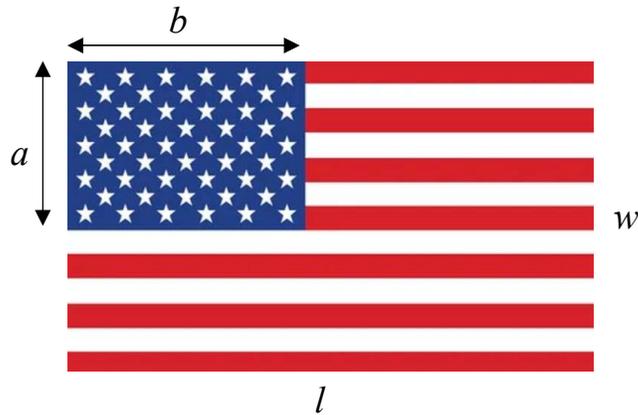# 7.1 Homework

The official ratio of the width to the length of the United States flag is $\dfrac{w}{l} = \dfrac{10}{19}$.

1. What is the ratio of the length to the width?

2. What is the ratio of the width blue field, a, to the width of the flag?

3. What is the ratio of the number of red stripes to the number of white stripes?

4. The official value of the ratio $\dfrac{b}{w}$ is 0.76. If the width of a flag is 48 inches, how wide is b?

5. For the proportion, $\dfrac{2}{3} = \dfrac{8}{12}$,

    a. Which values are the extremes?

    b. Which values are the means?

Solve each proportion.

6. $\dfrac{x}{7} = \dfrac{18}{42}$

7. $\dfrac{5}{x} = \dfrac{45}{72}$

8. $\dfrac{x-3}{3} = \dfrac{x+1}{4}$

9. $\dfrac{x+5}{2} = \dfrac{4x-3}{7}$

10. $\dfrac{2x-1}{x} = \dfrac{5}{12}$

11. $\dfrac{5}{x-5} = \dfrac{10}{x}$