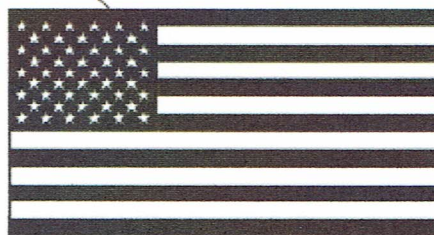## LESSON 4 Proportional Relationships

Challenge: Patriotic Proportions

On August 21, 1959, President Eisenhower signed an order that established the official proportions of the United States flag. No matter what size the flag is, it must match those proportions to be used officially.

Official Proportions for the United States Flag	
Width of flag	1
Length of flag	$1\frac{9}{10}$
Width of union	$\frac{7}{13}$
Length of union	$\frac{19}{25}$
Width of each stripe	$\frac{1}{13}$

The union is the blue area. The 50 stars represent the 50 states.

The 13 stripes represent the first 13 states.

Use the official proportions to find the missing dimension of each flag.

1. Length of flag = 10 feet; Width of flag =

2. Width of flag = 57 yards; Length of flag =

3. Width of flag = 13 centimeters; Width of Union =

4. Width of flag = 260 inches; Width of each stripe =

5. Length of flag = 25 meters; Length of Union =

Choose a width in inches for a United States flag. Then use a ruler to draw your flag with the official proportional length in the space below.

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