

## Grade 5 Unit 3

Lesson 8

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## Unit 3 Lesson 8: Apply Fraction Multiplication

### WU Number Talk: Fraction Multiplication (Warm up)

#### Student Task Statement

Find the value of each expression mentally.

- $\frac{1}{3} \times \frac{3}{5}$
- $\frac{2}{3} \times \frac{3}{5}$
- $\frac{5}{3} \times \frac{3}{5}$
- $\frac{2}{3} \times \frac{13}{5}$

### 1 Flags

#### Student Task Statement



## SELECTION OF WORLD FLAGS, 1968

\* Also known as Surinam

Jada has a small replica of a flag of Thailand.



It is 5 inches wide and  $7\frac{1}{2}$  inches long.

1. What is the area of the flag? Explain or show your reasoning.
2. Each red stripe is  $\frac{5}{6}$  inches wide. What is the area of each red stripe? Explain or show your reasoning.
3. The blue stripe is  $\frac{10}{6}$  inches wide. What is the area of the blue stripe? Explain or show your reasoning.

## 2 More Flags

### Student Task Statement

Han has a replica of the flag of Colombia.



It is  $3\frac{1}{2}$  inches wide and  $5\frac{1}{4}$  inches long. The yellow stripe is  $\frac{1}{2}$  of the width of the flag and the blue and red stripes are each  $\frac{1}{4}$  of the width.

1.  $\frac{1}{4} \times 3\frac{1}{2} = \frac{7}{8}$ . The answer is  $\frac{7}{8}$  inch. What is the question?
2.  $\frac{1}{2} \times 3\frac{1}{2} = \frac{7}{4}$  and  $\frac{7}{4} \times \frac{21}{4} = \frac{147}{16}$ . The answer is  $\frac{147}{16}$  square inches. What is the question?