## Unit 3 Lesson 8: Apply Fraction Multiplication

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

#### Student Task Statement

Find the value of each expression mentally.

* $\frac{1}{3}×\frac{3}{5}$
* $\frac{2}{3}×\frac{3}{5}$
* $\frac{5}{3}×\frac{3}{5}$
* $\frac{2}{3}×\frac{13}{5}$

### 1 Flags

#### Student Task Statement



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



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