## Unit 3 Lesson 12: Represent Division of Unit Fractions by Whole Numbers

### WU Estimation Exploration: How Much is Shaded? (Warm up)

#### Student Task Statement

How much is shaded?



Record an estimate that is:

|  |  |  |
| --- | --- | --- |
| too low | about right | too high |
|  |  |  |

#### Activity Synthesis



### 1 Diagrams, Equations, Situations

#### Student Task Statement

Priya and Mai used the diagrams below to find the value of .

Priya’s diagram:



Mai’s diagram:



1. What is the same about the diagrams?
2. What is different?
3. Find the value that makes the equation true.
4. Han drew this diagram to represent . Explain how the diagram
* shows .
* 
1. Find the value that makes the equation true. Explain or show your reasoning.

### 2 Priya’s Work

#### Student Task Statement

1. Find the value of . Explain or show your reasoning.
2. This is Priya’s work for finding the value of :
* 
* because I divided into 2 equal parts and of is shaded in.
	1. What questions do you have for Priya?
	2. Priya’s equation is incorrect. How can Priya revise her explanation?

#### Activity Synthesis



### 3 Look for Patterns

#### Student Task Statement

1. Find the value that makes each equation true. Use a diagram if it is helpful.
2. What patterns do you notice?
3. How would you find the value of  divided by any whole number? Explain or show your reasoning.

#### Images for Activity Synthesis





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