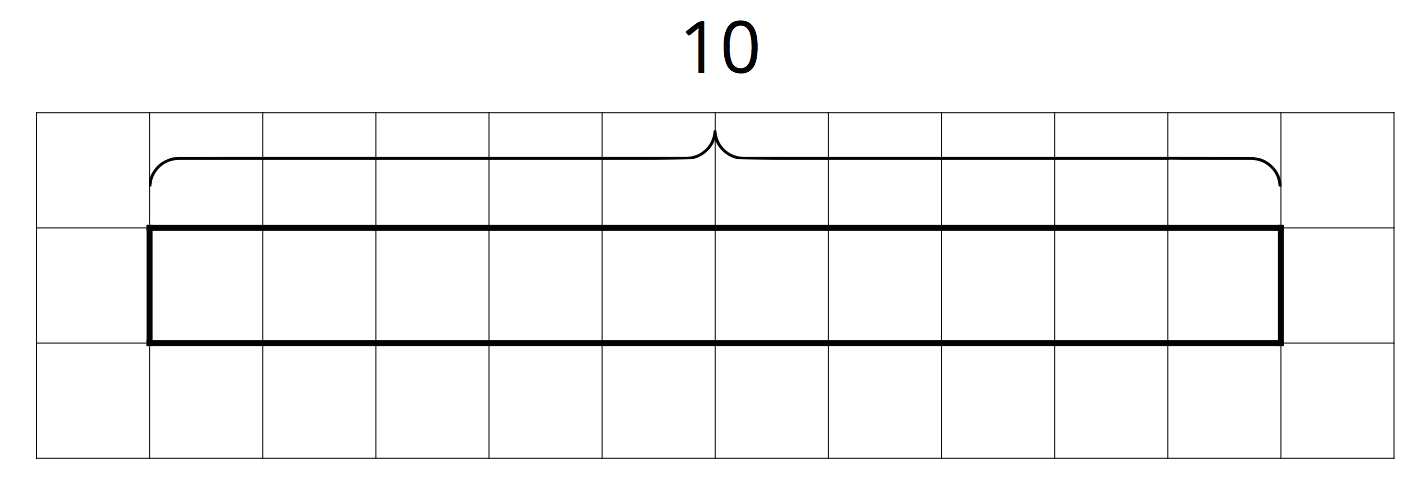
## Unit 4 Lesson 6: Using Diagrams to Find the Number of Groups

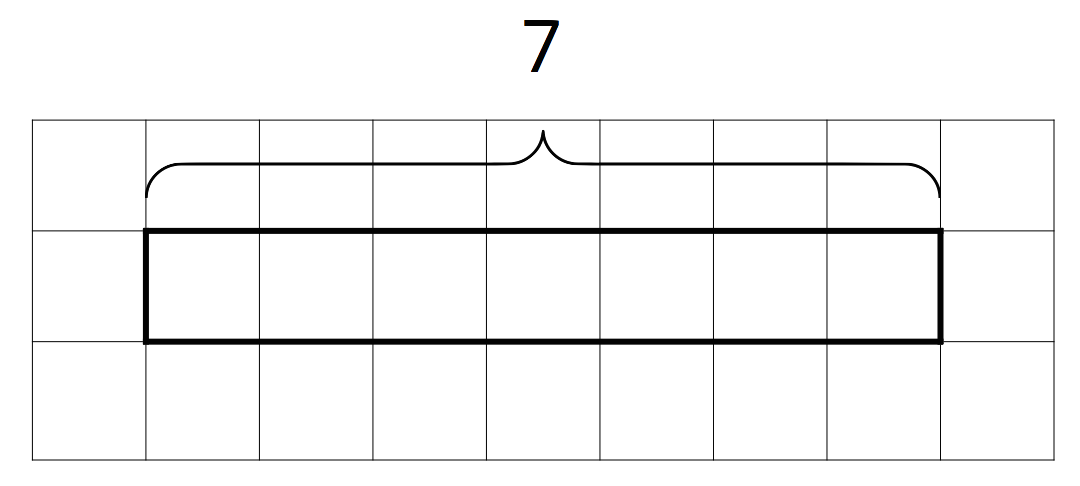
### 1 How Many of These in That? (Warm up)

#### Student Task Statement

1. We can think of the division expression as the question: “How many groups of are in 10?” Complete the tape diagram to represent this question. Then find the answer.

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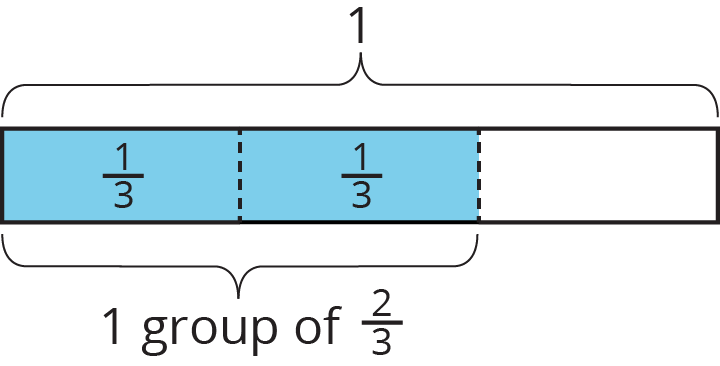
1. Complete the tape diagram to represent the question: “How many groups of 2 are in 7?” Then find the answer.

* 

### 2 Representing Groups of Fractions with Tape Diagrams

#### Student Task Statement

To make sense of the question “How many s are in 1?,” Andre wrote equations and drew a tape diagram.



1. In an earlier task, we used pattern blocks to help us solve the equation . Explain how Andre’s tape diagram can also help us solve the equation.
2. Write a multiplication equation and a division equation for each question. Then, draw a tape diagram and find the answer.
   1. How many s are in 1?
   * 
   1. How many s are in 3?
   * 
   1. How many s are in 5?
   * 

### 3 Finding Number of Groups

#### Student Task Statement

1. Write a multiplication equation or a division equation for each question. Then, find the answer and explain or show your reasoning.
   1. How many -inch thick books make a stack that is 6 inches tall?
   2. How many groups of pound are in  pounds?
2. Write a question that can be represented by the division equation . Then, find the answer and explain or show your reasoning.



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