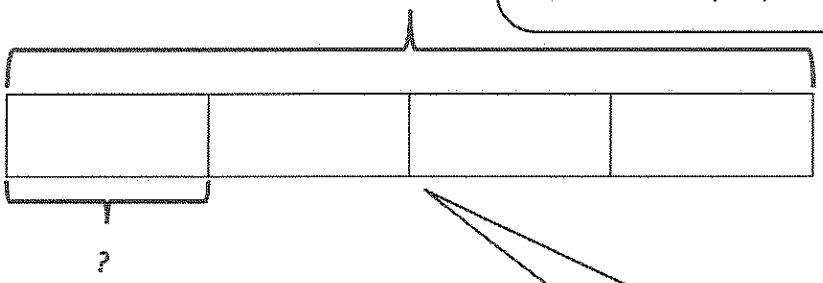
G5-M4-Lesson 4

Draw a tape diagram to solve. Express your answer as a fraction. Show the addition sentence to support your answer.

$5 \div 4 = \frac{5}{4} = 1\frac{1}{4}$

I can think of the expression $5 \div 4$ as 5 crackers being shared equally by 4 people. This unit here represents how much 1 person gets.

I can model $5 \div 4$ by drawing a tape diagram. The whole tape represents the dividend, 5. The divisor is 4, so I partition the model into 4 equal parts, or units.



Now that I've divided, I know that each of these four units has a value of $1\frac{1}{4}$.

4 *units* $= 5$

1 *unit* $= 5 \div 4 = \frac{5}{4} = 1\frac{1}{4}$

My tape diagram shows me that the 4 parts, or units, are equal to 5. So, I can find the value of 1 unit by dividing, $5 \div 4$.

$$\begin{array}{r} 1\frac{1}{4} \\ 4 \overline{)\ 5\ } \\ -4 \\ \hline 1 \end{array}$$

Check:

$4 \times 1\frac{1}{4}$

$= 1\frac{1}{4} + 1\frac{1}{4} + 1\frac{1}{4} + 1\frac{1}{4}$

$= 4 + \frac{4}{4}$

$= 5$