I can model division of fractions visually and use this technique to assist in real-world situations.

Visually Representing the Division of Fractions

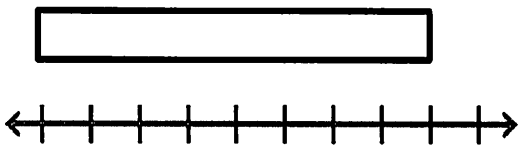
REAL-WORLD EXAMPLE

Bill wanted to order pizza for his son's graduation party. He decided to order 4 pizzas and estimated each person would eat about $\frac{1}{6}$ of a pizza. If Bill was planning on about 30 people, will this be enough pizza?

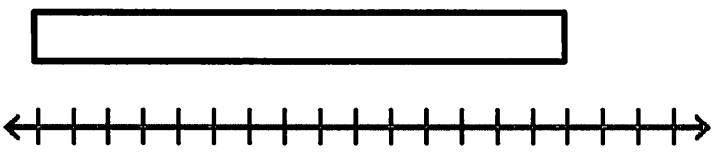
Visually	**Operationally**

Build Visual Models to Represent the Following Quotients.

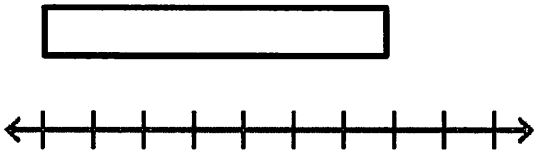
a. $\frac{8}{9} \div \frac{2}{9}$



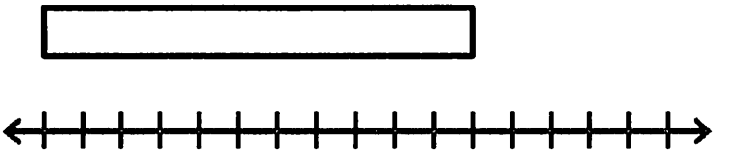
b. $\frac{15}{6} \div \frac{5}{6}$



c. $\frac{7}{3} \div \frac{2}{3}$



d. $\frac{11}{4} \div \frac{5}{4}$



1. $\frac{11}{8} \div \frac{3}{4}$

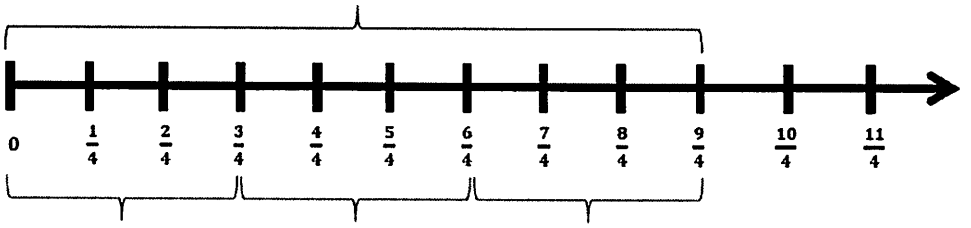
2. $\frac{5}{4} \div \frac{1}{3}$

3. $4 \div \frac{3}{4}$

4. $2\frac{1}{2} \div \frac{3}{5}$

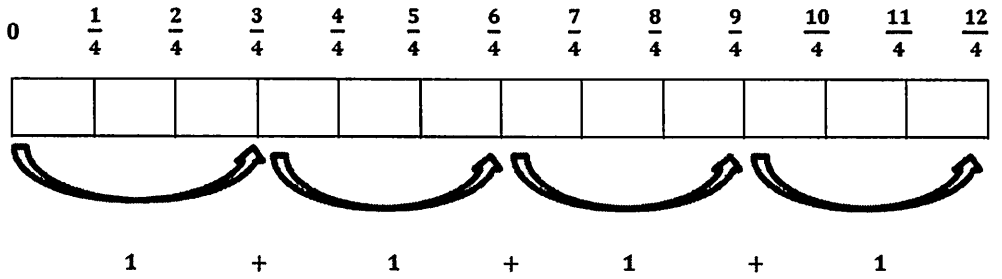
Determine the Division Expression that is represented by the model. Then find the Quotient.

1.

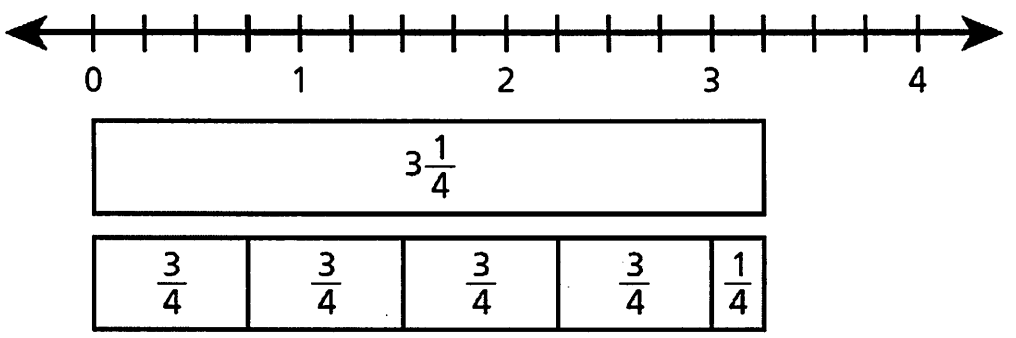


2.

3.



4.



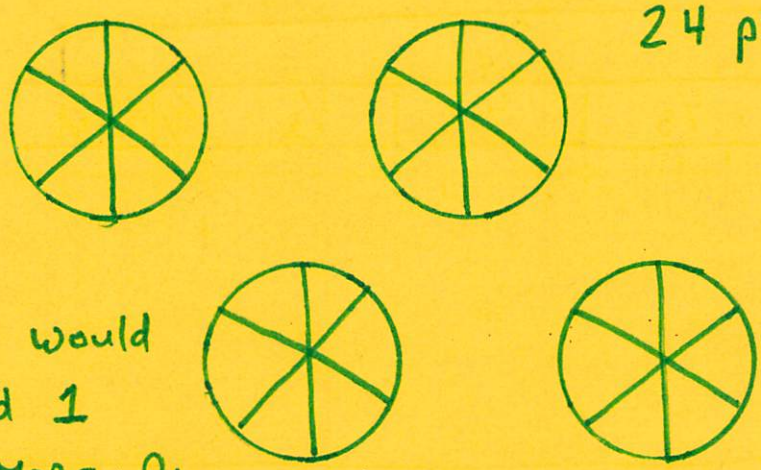
I can model division of fractions visually and use this technique to assist in real-world situations.

Visually Representing the Division of Fractions

REAL-WORLD EXAMPLE

Bill wanted to order pizza for his son's graduation party. He decided to order 4 pizzas and estimated each person would eat about $\frac{1}{6}$ of a pizza. If Bill was planning on about 30 people, will this be enough pizza?

Visually



Operationally

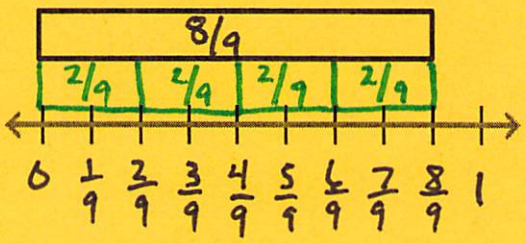
$4 \div \frac{1}{6}$

$\frac{4}{1} \cdot \frac{6}{1} = \frac{24}{1}$

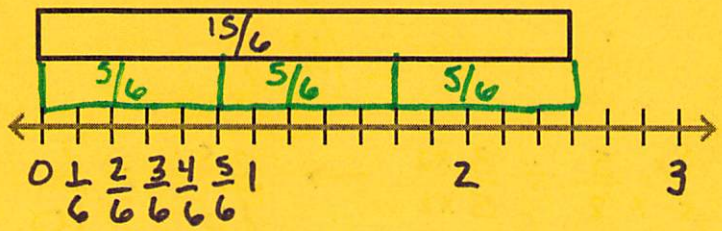
24 pieces

Build Visual Models to Represent the Following Quotients.

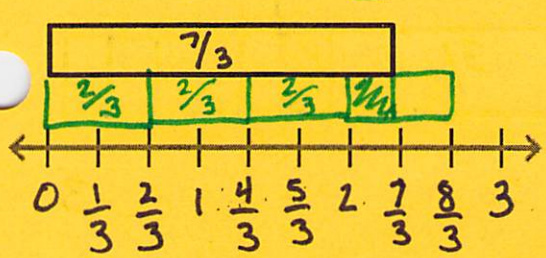
a. $\frac{8}{9} \div \frac{2}{9} = 4$



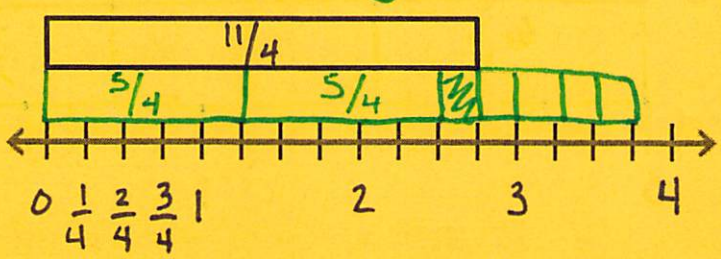
b. $\frac{15}{6} \div \frac{5}{6} = 3$



c. $\frac{7}{3} \div \frac{2}{3} = 3\frac{1}{2}$

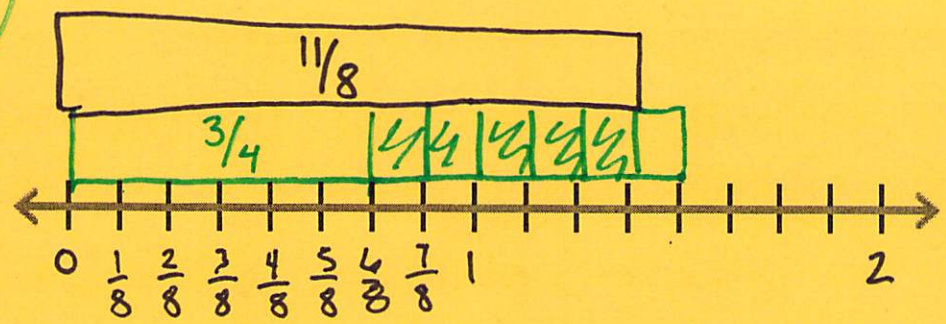


d. $\frac{11}{4} \div \frac{5}{4} = 2\frac{1}{5}$



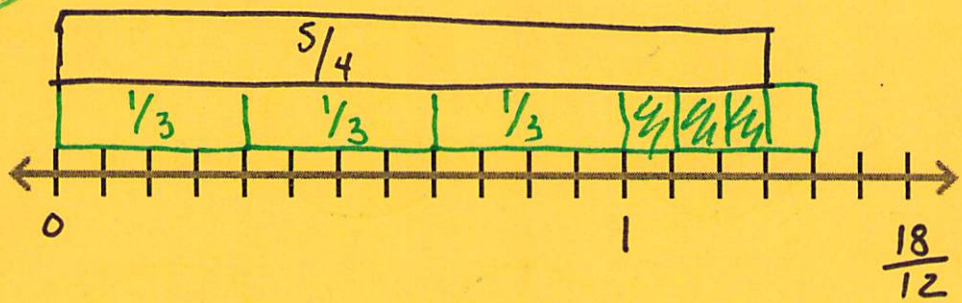
1. $\frac{11}{8} \div \frac{3}{4} = 1\frac{5}{6}$

$\frac{11}{8} \div \frac{6}{8}$



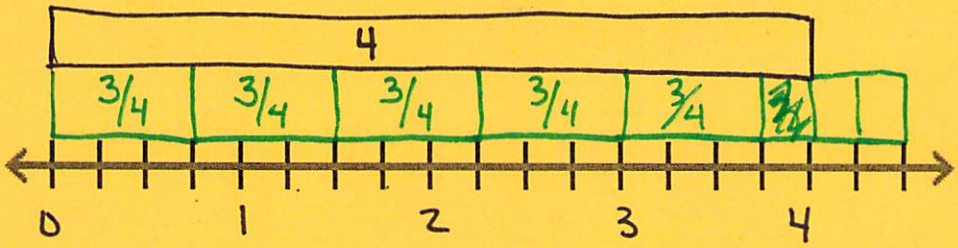
2. $\frac{3\times 5}{3\times 4} \div \frac{1\times 4}{3\times 4} = 3\frac{3}{4}$

$\frac{15}{12} \div \frac{4}{12}$



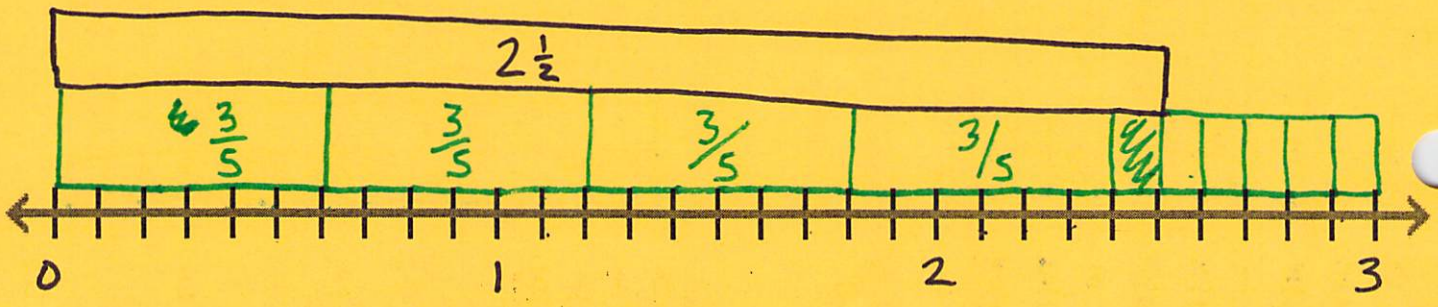
3. $4 \div \frac{3}{4} = 5\frac{1}{3}$

$\frac{16}{4} \div \frac{3}{4}$



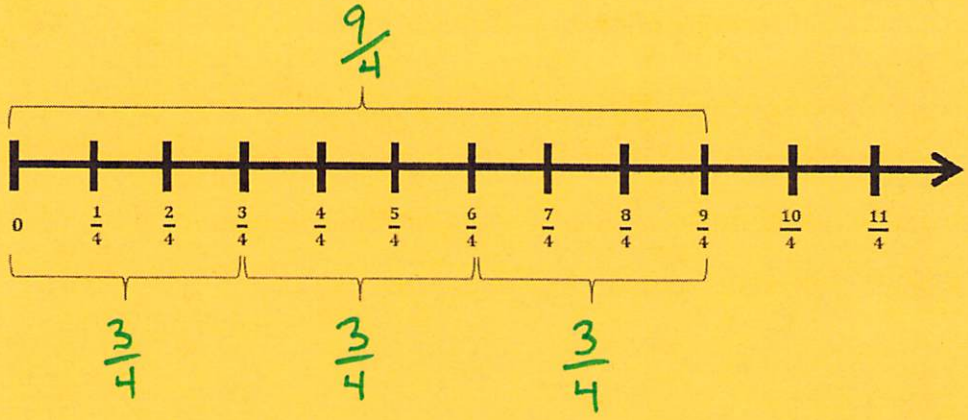
4. $2\frac{1}{2} \div \frac{3}{5} = 4\frac{1}{6}$

$\frac{5\times 5}{5\times 2} \div \frac{3\times 2}{5\times 2} \rightarrow \frac{25}{10} \div \frac{6}{10}$



Determine the Division Expression that is represented by the model. Then find the Quotient.

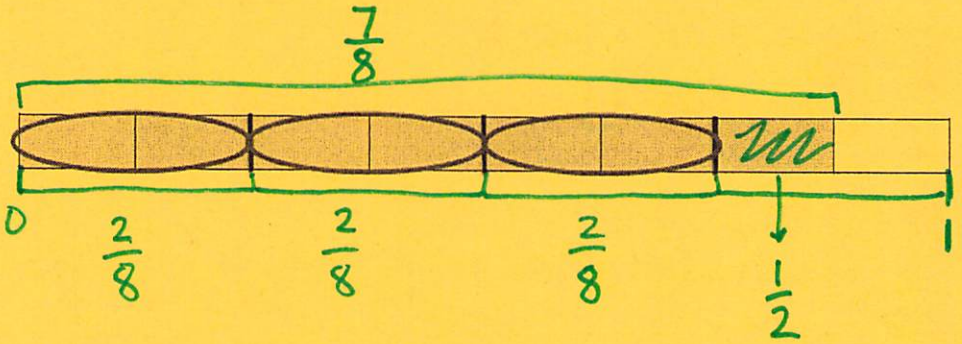
1.



$\frac{9}{4} \div \frac{3}{4}$

$\frac{9}{4} \cdot \frac{4}{3} = \frac{3}{1} = 3$

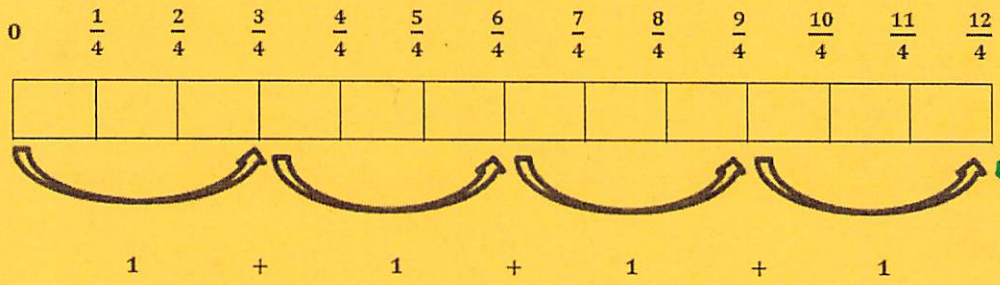
2.



$\frac{7}{8} \div \frac{2}{8}$

$\frac{7}{8} \cdot \frac{8}{2} = \frac{7}{2} = 3\frac{1}{2}$

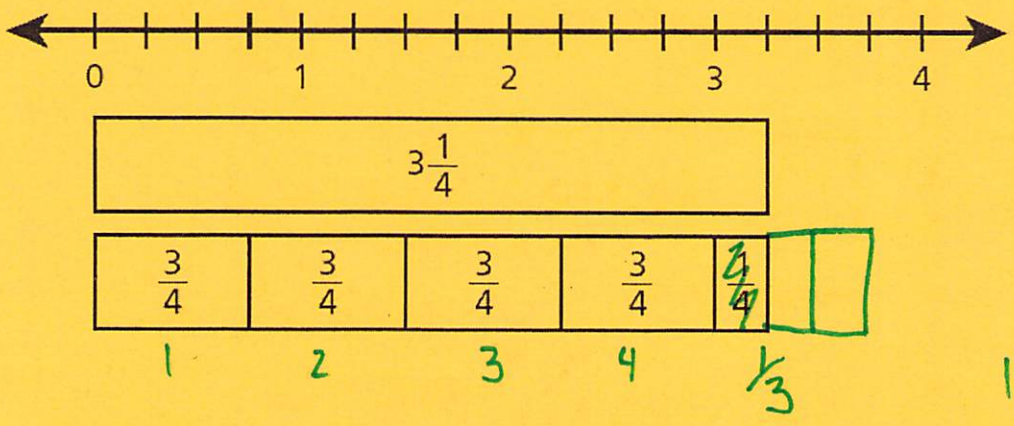
3.



$\frac{12}{4} \div \frac{3}{4}$

$\frac{12}{4} \cdot \frac{4}{3} = \frac{4}{1} = 4$

4.



$3\frac{1}{4} \div \frac{3}{4}$

$\frac{13}{4} \div \frac{3}{4}$

$\frac{13}{4} \cdot \frac{4}{3} = \frac{13}{3} = 4\frac{1}{3}$