Name _____   Date_____

Interpreting and Computing Division of a Fraction by a Fraction—More Models

Draw a model to support your answer to the division questions.

1. $\dfrac{9}{4} \div \dfrac{3}{8}$

2. $\dfrac{3}{5} \div \dfrac{2}{3}$

Draw a model to support your answer to the division questions.

1. $\dfrac{8}{9} \div \dfrac{4}{9}$
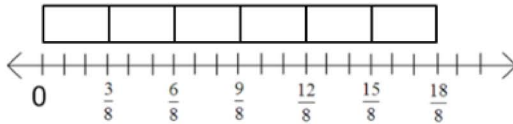
2. $\dfrac{9}{10} \div \dfrac{4}{10}$

3. $\dfrac{3}{5} \div \dfrac{1}{3}$

4. $\dfrac{3}{4} \div \dfrac{1}{5}$

Draw a model to support your answer to the division questions.
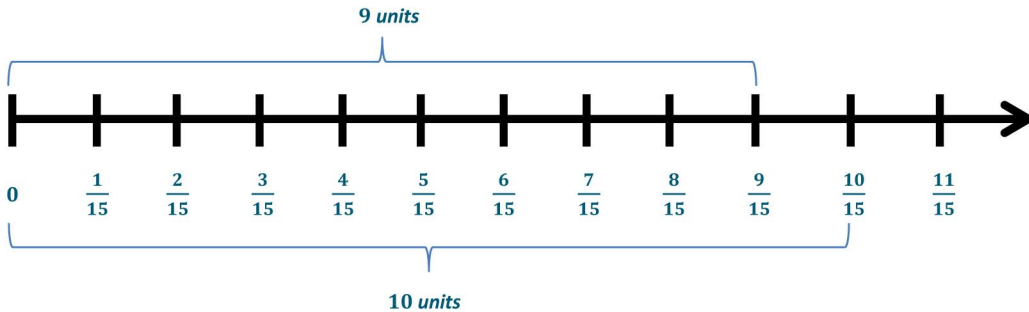
1. $\dfrac{9}{4} \div \dfrac{3}{8}$

   This can be rewritten as $\dfrac{18}{8} \div \dfrac{3}{8}$ = eighteen eighths divided by three eighths = $\dfrac{18}{3}$ = 6.

2. $\dfrac{3}{5} \div \dfrac{2}{3}$

   This can be rewritten as $\dfrac{9}{15} \div \dfrac{10}{15}$ = nine fifteenths divided by ten fifteenths, or 9 units ÷ 10 units.

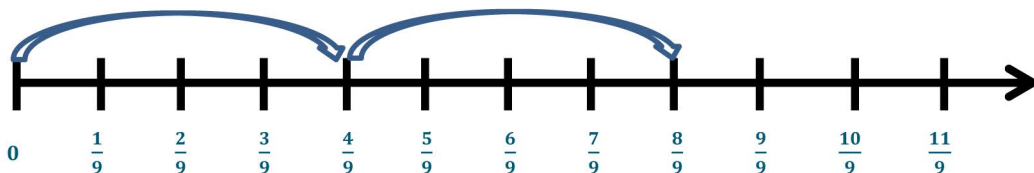   *So, this is equal to $\dfrac{9}{10}$.*

The following problems can be used as extra practice or a homework assignment.

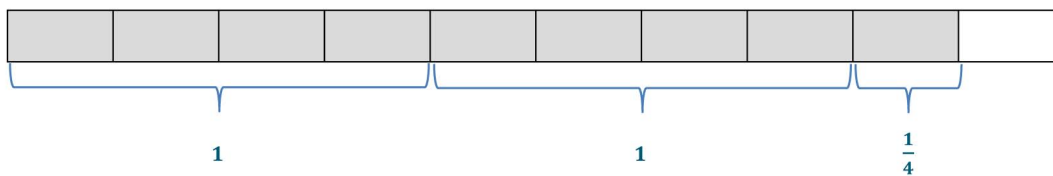**Draw a model to support your answer to the division questions.**

1. $\dfrac{8}{9} \div \dfrac{4}{9}$
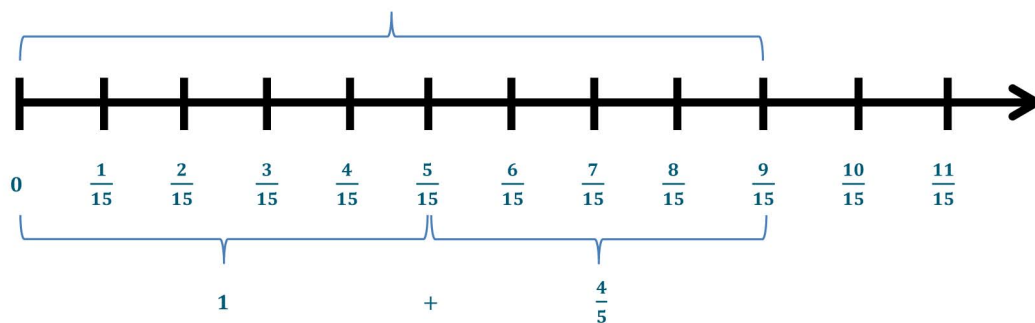
   Eight ninths ÷ four ninths = 2.

2. $\dfrac{9}{10} \div \dfrac{4}{10}$
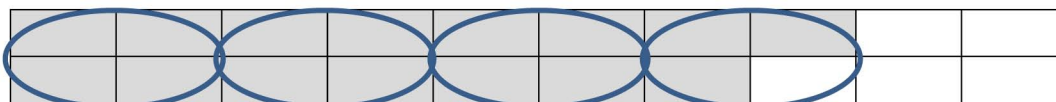
Nine tenths ÷ four tenths = $2\dfrac{1}{4}$.

| 1 | 1 | $\dfrac{1}{4}$ |

3. $\dfrac{3}{5} \div \dfrac{1}{3}$

$\dfrac{9}{15} \div \dfrac{5}{15} =$ *nine fifteenths ÷ five fifteenths* $= \dfrac{9}{5} = 1\dfrac{4}{5}$.

| 0 | $\dfrac{1}{15}$ | $\dfrac{2}{15}$ | $\dfrac{3}{15}$ | $\dfrac{4}{15}$ | $\dfrac{5}{15}$ | $\dfrac{6}{15}$ | $\dfrac{7}{15}$ | $\dfrac{8}{15}$ | $\dfrac{9}{15}$ | $\dfrac{10}{15}$ | $\dfrac{11}{15}$ |

1   + $\dfrac{4}{5}$

4. $\dfrac{3}{4} \div \dfrac{1}{5}$

$\dfrac{15}{20} \div \dfrac{4}{20} =$ *fifteen twentieths ÷ four twentieths* $= \dfrac{15}{4}$.

1 + 1 + 1 + $\dfrac{3}{4}$ = $3\dfrac{3}{4}$

$\dfrac{4}{4}$ + $\dfrac{4}{4}$ + $\dfrac{4}{4}$ + $\dfrac{3}{4}$ = $\dfrac{15}{4}$