

Name: _____ Date: _____

Directions: Make a model and record the multiplication and division equation for each situation.

1. How many $\frac{2}{3}$ portions are in 6?



Multiplication Equation:	Division Equation:
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2. How many $\frac{3}{4}$ portions are in 7?



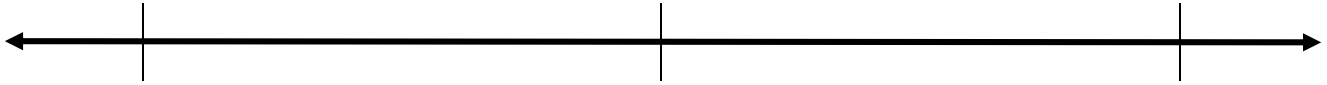
Multiplication Equation:	Division Equation:
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3. How many $\frac{3}{5}$ portions are in 6?



Multiplication Equation:	Division Equation:
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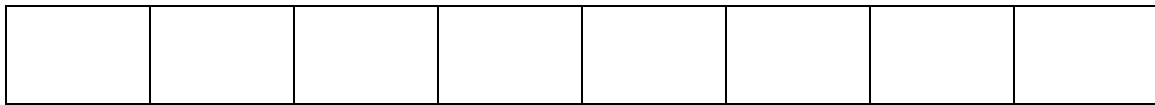
4. How many $\frac{3}{8}$ portions are in 2?



Multiplication Equation:	Division Equation:
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Directions: Complete the model, compute, then record the corresponding multiplication and division equation, and describe a situation for each situation.

5. $\frac{5}{8} \div 2 =$



Multiplication Equation:	Division Equation:
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Situation description:

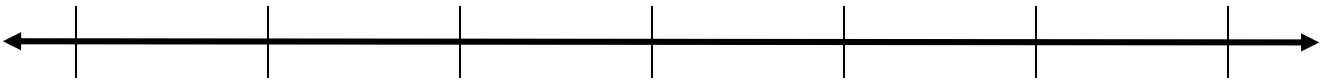
6. $\frac{2}{3} \div 5 =$

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Multiplication Equation:	Division Equation:

Situation description:

7. $\frac{5}{6} \div 4 =$



Multiplication Equation:	Division Equation:

Situation description:

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



Multiplication Equation:	Division Equation:
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Situation description:

TEACHER NOTES (Example Responses)

Directions: Make a model and record the multiplication and division equation for each situation.

1. How many $\frac{2}{3}$ portions are in 6?



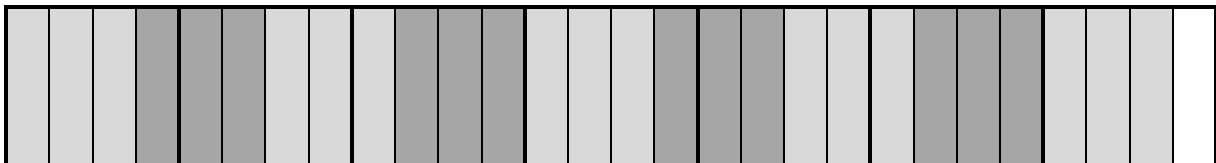
Divide each whole into thirds. Shade $\frac{2}{3}$ of the first whole. Continue shading 2 portions. How many portions of $\frac{2}{3}$ are there? Here are 2 possible ways the diagram can be partitioned to show the quotient is 9.

1	3	4	6	7	9
1	3	4	6	7	9
2	2	5	5	8	8

Multiplication Equation: $? \times \frac{2}{3} = 6$	Division Equation: $6 \div \frac{2}{3} = 9$
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2. How many $\frac{3}{4}$ portions are in 7?

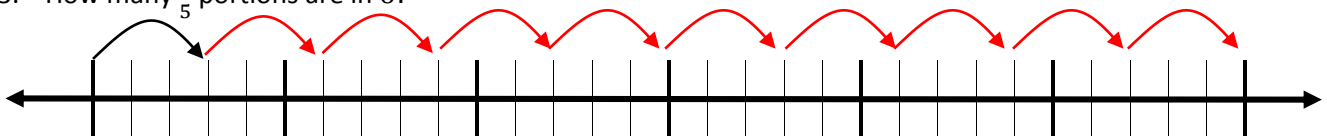
Divide each whole into fourths. Shade $\frac{3}{4}$ of the first whole. Continue shading 3 portions. How many portions of $\frac{3}{4}$ are there? There is 1 more section left, but 3 are needed to have a whole group. That is why the quotient is $9\frac{1}{3}$. Here are two possible ways to shade the diagram.



1	2	3	4	5	6	7
1	2	3	4	5	6	7
1	2	3	4	5	6	7
8	8	8	9	9	9	

Multiplication Equation: $? \times \frac{3}{4} = 7$	Division Equation: $7 \div \frac{3}{4} = 9\frac{1}{3}$
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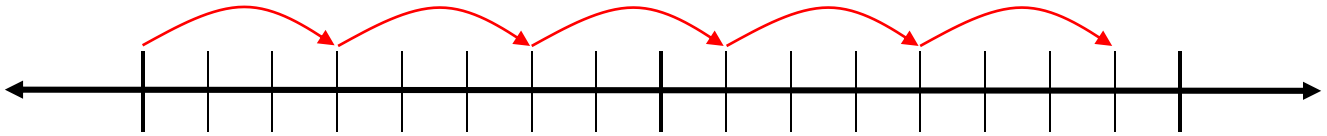
3. How many $\frac{3}{5}$ portions are in 6?



Continue drawing arrows to show $\frac{3}{5}$ portions. How many portions of $\frac{3}{5}$ are shown by the arrows?

Multiplication Equation: $? \times \frac{3}{5} = 6$	Division Equation: $6 \div \frac{3}{5} = 10$
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4. How many $\frac{3}{8}$ portions are in 2?



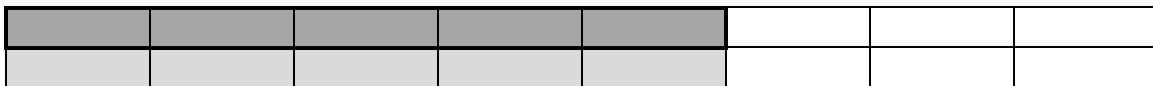
Partition the 2 into eighths. Draw arrows to show $\frac{3}{8}$ portions. How many $\frac{3}{8}$ portions are there? There is 1 extra section of the 3 needed, so that makes $5\frac{1}{3}$ portions.

Multiplication Equation: $? \times \frac{3}{8} = 2$	Division Equation: $2 \div \frac{3}{8} = 5\frac{1}{3}$
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Directions: Complete the model, compute, then record the corresponding multiplication and division equation, and describe a situation for each situation.

5. $\frac{5}{8} \div 2 =$

Shade 5 of the 8ths. Now divide all of the 8ths into 2 portions. Can you see how 5 of the 16 portions are indicated?

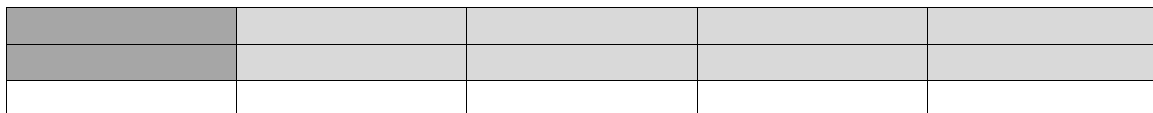


Multiplication Equation: $? \times 2 = \frac{5}{8}$	Division Equation: $\frac{5}{8} \div 2 = \frac{5}{16}$
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Situation description:

Sample: Sam and Julie are sharing $\frac{5}{8}$ of a King-size candy bar equally. How much of the candy bar will each eat?

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



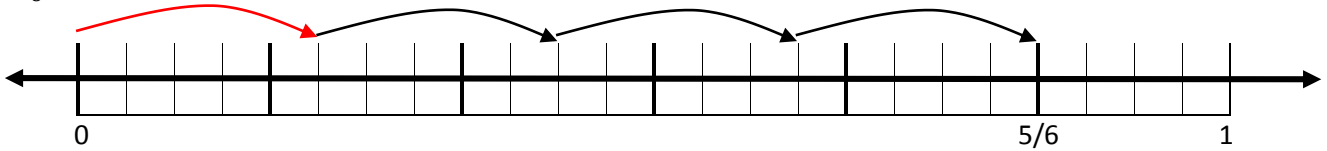
Partition the area into thirds. Shade 2 of them. Now divide all of the portions into 5 sections. How many sections are shaded in 1 of the 5 portions?

Multiplication Equation: $? \times 5 = \frac{2}{3}$	Division Equation: $\frac{2}{3} \div 5 = \frac{2}{15}$
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Situation description:

Sample: Karla cut $\frac{2}{3}$ of a submarine sandwich into 5 equal portions. How much of the sandwich is each portion?

7. $\frac{5}{6} \div 4 =$



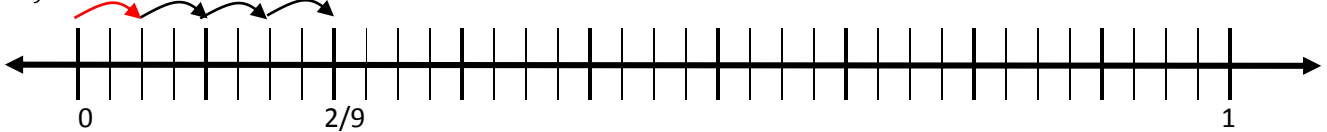
Partition the line into sixths and show where $\frac{5}{6}$ is on the number line. Divide that section into 4 sections. (If you divide each portion into 4 it is easy to see the whole is 24 portions and $\frac{5}{6}$ is 20 of those portions.) How many sections are in 1 of the 4 portions of $\frac{5}{6}$ - indicated by 1 arrow.

<p>Multiplication Equation:</p> $? \times 4 = \frac{5}{6}$	<p>Division Equation:</p> $\frac{5}{6} \div 4 = \frac{5}{24}$
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Situation description:

Sample: Frank has $\frac{5}{6}$ of a book left to read in 4 days. How much of the book should he read each day to finish?

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



Partition the line into ninths and show where $\frac{2}{9}$ is on the number line. Divide that section into 4 sections. (If you divide each portion into 4 it is easy to see the whole is 36 portions and $\frac{2}{9}$ is 8 of those portions.) How many sections are in 1 of the 4 portions of the 36 (indicated by 1 arrow).

<p>Multiplication Equation:</p> $? \times 4 = \frac{2}{9}$	<p>Division Equation:</p> $\frac{2}{9} \div 4 = \frac{2}{36}$
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Situation description:

Kyle has a rope that is $\frac{2}{9}$ of a yard long. He needs to cut it into 4 equal pieces. How much of a yard is each piece?