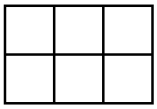
Lesson 2 Segment 1-Division Models Pre-Assessment

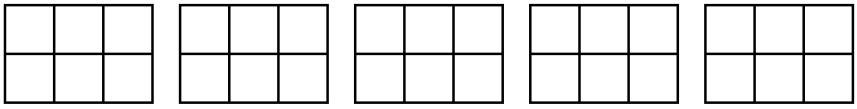
Name _____ Date _____

1) Do you agree that the model represents the equation $1 \div 6 = \frac{1}{6}$? Explain your reasoning.



Agree or Disagree	Explain:

2) Do you agree that the model represents the equation $5 \div 6 = \frac{5}{6}$? Explain your reasoning.



Agree or Disagree	Explain:

Which situation corresponds to the visual model?

- ☐ Five people share 6 candy bars.
- ☐ Six people share 5 candy bars.

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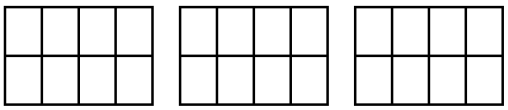
3) Do you agree that the model represents the equation $8 \div 3 = \frac{8}{3}$? Explain your reasoning.



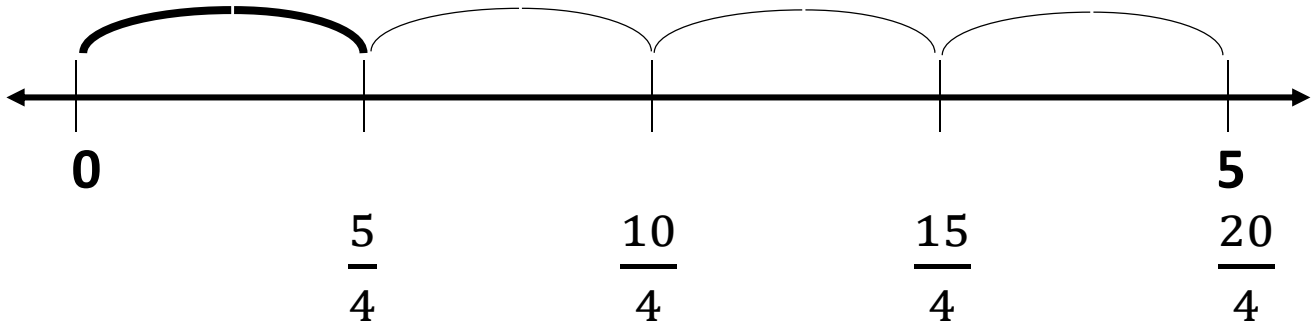
Agree or Disagree	Explain:

Which situation corresponds to the visual model?

☐ Three people share 8 pizzas.

☐ 8 people share 3 pizzas.

4) Given the following number line model, 2 expressions correctly represent the model and one expression is incorrect. Circle the incorrect expression.



Repeated Addition Pattern	Multiplication Expression	Division Expression
$\frac{5}{4} + \frac{5}{4} + \frac{5}{4} + \frac{5}{4}$	$4 \times \frac{5}{4}$	$4 \div 5$

Explain why the expression is incorrect and correct it.

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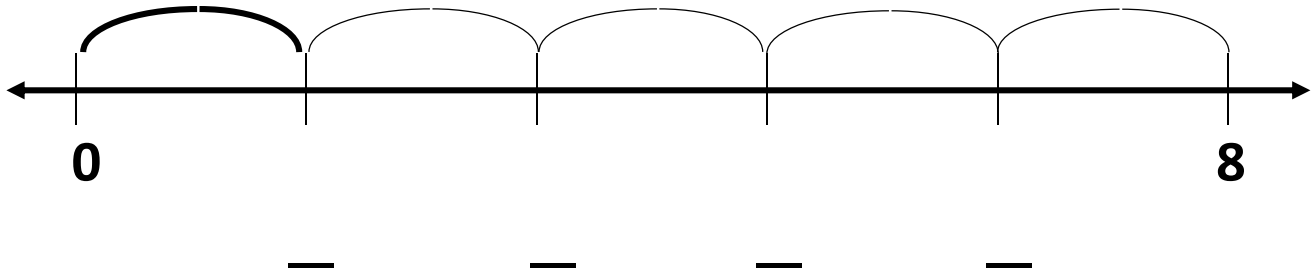
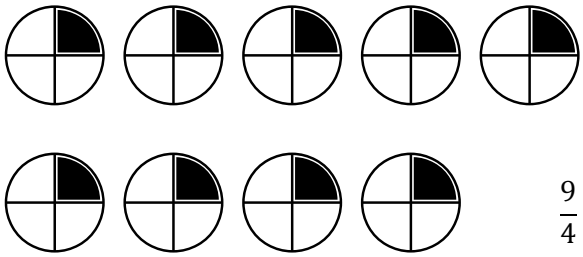
5)



Repeated Addition Pattern	Multiplication Expression	Division Expression

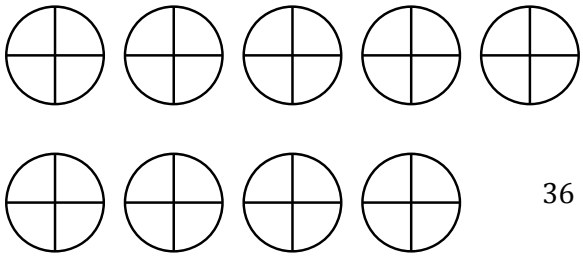
6) Which model accurately represents the division problem $9 \div \frac{1}{4} = ?$ Explain your reasoning.

Model A



$\frac{9}{4}$

Model B



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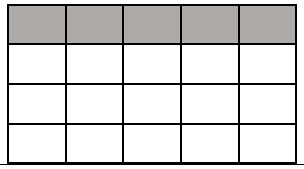
Model A
or
Model B

Explain:

7) Do you agree that the model accurately represents the division problem $\frac{1}{5} \div 4 = \frac{5}{20}$? Explain your reasoning.



Agree
or
Disagree

Explain:

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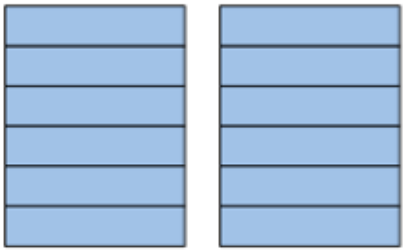
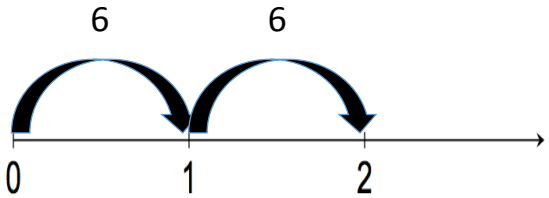
8) Select each description that represents the following division problem: $\frac{5}{6} \div 3$.

- ☐ You have $\frac{5}{6}$ lb. chocolate to share with yourself and two friends.
- ☐ Bryant has a $\frac{5}{6}$ foot board and needs it cut into 3 equal parts.
- ☐ How many groups of $\frac{5}{6}$ are in 3?
- ☐ Rita has 3 lbs. of chocolate and needs it divided into $\frac{5}{6}$ lb. servings.
- ☐ Lora found a 3 ft. board and wanted to partition it into $\frac{5}{6}$ foot sections.
- ☐ How many groups of 3 are in $\frac{5}{6}$?

9) Joe and Sarah are trying to understand the following problem:

Bart has 2 pounds of gummy worms. He wants to put them in small bags of about $\frac{1}{6}$ pound. How many small bags of candies can he make?

Record an equation that would correspond to each student's diagram.
Do you agree or disagree with their strategies? Why or why not?

Here is Joe's work: 	Agree or Disagree	Why or why not?
Here is Sarah's work: 	Agree or Disagree	Why or why not?