Modeling Division Using Number Lines

Name:

Date:

When dividing whole numbers, it can be helpful to show division as a form of multiplication to model the result on a number line. This can be done in three easy steps!

Consider 9 ÷ 8

Step 1: Express the division statement $9 \div 8$ as a multiplication expression: $9 \times 1/8$.

Step 2: Graph the multiplication expression 9 x 1/8 on a number line.



Observe how: $9 \div 8 = \frac{9}{8}$

Step 3: State the equation, including the quotient: $9 \div 8 = 1\frac{1}{8}$

Step One Exercises

Directions: Express each division statement as a multiplication expression.

1.	8 ÷ 6 =	2 . 9 ÷ 2 =	
3.	7 ÷ 3 =	4 . 12 ÷ 2 = _	
5.	10 ÷ 3 =		

Step Two Exercises

Directions: Graph the multiplication form of each statement on a number line.

6.	8 ÷ 6 =	
7.	9 ÷ 2 =	
8.	7 ÷ 3 =	

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9.	12 ÷ 2 =	
10.	10 ÷ 3 =	

Step Two Exercises

Directions: State the multiplication equation, including the quotient for each exercise.

11. 8 ÷ 6 =	12. 9 ÷ 2 =
13 . 7 ÷ 3 =	14 . 12 ÷ 2 =
15 . 10 ÷ 3 =	

Try These

Directions: Solve each of the following division expressions using the three-step procedure.

8.	9 ÷ 6 =	
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9. 10 ÷ 2 =

10. 8 ÷ 3 =