

Name _____

1. Archie can walk 1 mile in $\frac{1}{3}$ hour. How far can he walk in 3 hours? Explain how you found your answer.

2. Select all the equations that the number 7 will make true.

- $4 \div ? = \frac{4}{7}$
 $? \div 14 = \frac{1}{2}$
 $1 \div 7 = ?$
 $3 \div ? = \frac{7}{3}$
 $9 \div ? = 63$

3. Diana has 9 pounds of potting soil. She is putting $\frac{1}{4}$ pound of soil in each flowerpot. How many flowerpots can Diana fill with soil? Explain how you found your answer.

4. How many $\frac{1}{9}$ s are in 31? What multiplication equation can you use to check your answer?

5. Tomás is cutting a board into $\frac{1}{4}$ -yard pieces. If the board is 3 yards long, how many pieces can Tomás cut? Use the number line. Choose the equation that represents the problem.



- (A) $\frac{1}{4} \div 3 = \frac{1}{12}$ (C) $1 \div \frac{1}{4} = 4$
 (B) $\frac{1}{4} \times 3 = \frac{3}{4}$ (D) $3 \div \frac{1}{4} = 12$

6. A baker has 15 cups of flour. He sets aside 4 cups of flour, and uses the rest for a cookie recipe that calls for $\frac{1}{2}$ cup of flour. How many batches of cookies can the baker make?

- (A) 11 (C) 22
 (B) 15 (D) 30

7. A relay race is $\frac{1}{4}$ -mile long and is run by 4-member teams. If each team member runs the same distance, what fraction of a mile does each team member run? Explain how you found your answer.

8. Jasmine and four friends moved 23 pounds of dirt. Each friend moved the same amount of dirt. Use an equation to find how much dirt each friend moved.

9. Choose the correct quotient for each expression.

	$\frac{2}{9}$	$\frac{1}{18}$	$4\frac{1}{2}$	18
$9 \div 2$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$9 \div \frac{1}{2}$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$2 \div 9$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{1}{2} \div 9$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. A. Select all the expressions that are equal to $\frac{1}{5}$.

- $2 \div 10$ $2 \div \frac{1}{10}$
 $5 \div 1$ $1 \div \frac{1}{5}$
 $\frac{1}{5} \div 1$

- B. How can you check your answer?

11. The area of a closet floor is 12 square feet. Mario will be placing $\frac{1}{3}$ -square-foot carpet tiles on the entire floor. How many carpet tiles will Mario use? What equation can you use to check your answer?

12. Ivanna says that $2\frac{4}{9}$ equals $9 \div 22$. Is she correct? Explain.

13. Cho has $\frac{1}{5}$ liter of water. He pours equal amounts of his water into 3 cups. Write an expression for the number of liters of water in each cup and solve.

14. Look at the equations below.

$7 \div \frac{1}{4} = \square$ $5 \div \frac{1}{10} = \square$

$7 \times 4 = \square$ $5 \times 10 = \square$

- A. Write numbers in the boxes above to make each equation true.

- B. What generalization can you make about the equations? Explain.