

Problem Set

- Use tape diagrams to calculate the solution of $30 = 5w$. Then, check your answer.
- Solve $12 = \frac{x}{4}$ algebraically. Then, check your answer.
- Use tape diagrams to calculate the solution of $\frac{y}{5} = 15$. Then, check your answer.
- Solve $18z = 72$ algebraically. Then, check your answer.
- Write a division equation that has a solution of 8. Prove that your solution is correct by using tape diagrams.
- Write a multiplication equation that has a solution of 8. Solve the equation algebraically to prove that your solution is correct.
- When solving equations algebraically, Meghan and Meredith each got a different solution. Who is correct? Why did the other person not get the correct answer?

Meghan	Meredith
$\frac{y}{2} = 4$	$\frac{y}{2} = 4$
$\frac{y}{2} \cdot 2 = 4 \cdot 2$	$\frac{y}{2} \div 2 = 4 \div 2$
$y = 8$	$y = 2$