



## Solving One-Variable Equations and Inequalities

Engage

**Directions:** Cut out the equations and solutions below. Match each problem situation with the correct equation and solution.

Problem Description	Equation	Solution
Benjamin had $n$ sheets of paper. He used 15 sheets to make a picture. He now has 75 sheets of paper. How many sheets did he have?		
Shirley had 15 sheets of paper. Her teacher gave her $n$ more sheets. Now she has 75 sheets. How many sheets did her teacher give her?		
Jacob shared $n$ dollars with 4 friends. Each person received \$15. How much money, $n$ , did Jacob share?		
Madison purchased 5 t-shirts that each cost $n$ dollars. If Madison spent a total of \$75 before tax, how much money, $n$ , did each t-shirt cost?		
At a garage sale, Abraham spent \$75 on $n$ books. If each book cost \$5 How many books, $n$ , did Abraham buy?		
$n$ vans each carried 15 people to the soccer game. There were 75 people at the soccer game that arrived in vans. How many vans, $n$ , carried people to the soccer game?		





$15n = 75$	$5n = 75$
$15 + n = 75$	$n - 15 = 75$
$\frac{n}{5} = 15$	$\frac{75}{n} = 5$



5	75
15	15
90	60

