



Solving One-Variable Equations and Inequalities

Engage

Directions: Cut out the number sentences below. Match each problem situation with the number sentence that represents the same mathematical relationship.

Problem Description	Number Sentence
Benjamin had 85 sheets of paper. He used 15 sheets to make a picture, and then used all the remaining sheets to make 5 posters. He used the same number of sheets, n , to make each poster.	
Shirley had 85 sheets of paper. Her teacher gave her 15 more, and then Shirley used all the sheets to make 5 posters. She used the same number of sheets, n , to make each poster.	
Jacob shared \$85 with 4 friends. His aunt gave him \$15. How much money, n , does Jacob now have?	
Madison purchased 5 chairs that each cost \$85 and used a coupon for \$15. Before sales tax, how much money, n , did Madison spend?	
At a garage sale, Abraham purchased 15 books at \$5 each. If he had \$85 in his wallet, how much money, n , did Abraham have left?	
There were 85 people at the soccer game. 5 vans that each hold 15 people arrived. If each van was full, how many people, n , are at the soccer game?	



$85 - (15 \times 5) = n$	$85 \times 5 - 15 = n$
$(85 - 15) \div 5 = n$	$85 + (15 \times 5) = n$
$85 \div 5 + 15 = n$	$(85 + 15) \div 5 = n$

