
 NAME _____

Module 4 Solving Problems Using Linear Equations of One Variable
Lesson 1 Translating Sentences into Algebraic Equations



guided
practice

Set 1

- Translate into an equation: Three more than twice a number is equal to twenty-seven. $2n + 3 = 27$
- Translate into an equation: If a number is divided by two, and the quotient is reduced by three, the result is five. $\frac{x}{2} - 3 = 5$
- Translate into an equation: Adding ten to four times a number gives the same result as subtracting eight from seven times that number.
 $4x + 10 = 7x - 8$
- Translate into an equation: Eight times the sum of a number and three is forty.
 $8(x + 3) = 40$
- Translate into an equation: Twice the quantity of a number minus four is seven more than the number. $2(N - 4) = N + 7$

Set 2

- Translate into an equation: Joe is three times as old as Mack. The difference in their ages is twenty-four years. $\text{Let } A = \text{Mack's age}; 3A = \text{Joe's age}; 3A - A = 24$
- Translate into an equation: The length of a side of a square is s , and its perimeter is 8 inches. $4s = 8$
- Translate into an equation: Harry is two years older than Larry. The product of their ages is ninety-nine. $\text{Let } a = \text{Larry's age}; a + 2 = \text{Harry's age}; a(a + 2) = 99$
- Translate into an equation: The cost of Brenda's food order was c dollars. She paid \$20 and received \$6.24 in change. $\$20 - c = \6.24

