

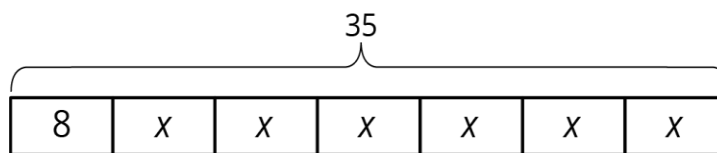
1. Use a T check to determine whether the given value is a solution to the equation.

a. $4n - 3 = 9 - 2n$, $n = 2$

c. $3(y + 8) = 2y - 6$, $y = 30$

b. $9m - 19 = 1 + 3m$, $m = \frac{10}{3}$

2. Select **all** the equations that match the tape diagram.



a. $35 = 8 + x + x + x + x + x + x$

e. $6x + 8x = 35x$

b. $35 = 8 + 6x$

f. $35 - 8 = 6x$

c. $6 + 8x = 35$

d. $6x + 8 = 35$

3. Andrew is trying to create a number puzzle for his younger sister to solve. He challenges his sister to find the mystery number. "When 4 is subtracted from half of a number the result is 5." The equation to represent the mystery number is $\frac{1}{2}m - 4 = 5$. Andrew's sister tries to guess the mystery number. Use T checks to answer the following questions.

a. Her first guess is 30. Is she correct?

b. Her second guess is 2. Is she correct?

c. Her final guess is 9. Is she correct?