


1. Translate to an equation, then solve:

Fifteen more than a number is forty.

$$\begin{array}{r} n + 15 = 40 \\ -15 \quad -15 \\ \hline \boxed{n = 25} \end{array}$$

2. Translate to an equation, then solve:

Eight less than (the product of three and  $x$ ) is equal to thirteen.


$$\begin{array}{r} 3x - 8 = 13 \\ +8 \quad +8 \\ \hline \frac{3x}{3} = \frac{21}{3} \\ \boxed{x = 7} \end{array}$$

3. Translate to an equation, then solve:

(The difference of eight times  $b$  and nine) is the same as triple (the sum of  $b$  and two).

$$8b - 9 = 3(b + 2)$$

$$8b - 9 = 3b + 6$$

$$\begin{array}{r} -3b \qquad -3b \\ \hline \end{array}$$

$$5b - 9 = 6$$

$$\begin{array}{r} +9 \qquad +9 \\ \hline \end{array}$$

$$\frac{5b}{5} = \frac{15}{5}$$

$$\boxed{b = 3}$$

Q: A man rode his horse into town on Tuesday. Two days later he rode home on Tuesday. How is this possible?