

## Translate Phrases into an Algebraic Statement



**Write an algebraic expression for each phrase.**

- 1) Twice a number divided by forty.
- 2) A number decreased by three times the sum of a number and forty.
- 3) The difference between thirty-six and a number.
- 4) three times a number decreased by twenty.
- 5) A number decreased by twelve.
- 6) The difference between eight and a number.
- 7) seven times the sum of a number and thirty-five.
- 8) The quotient of nine and a number.
- 9) A number decreased by thirty-six.
- 10) A number increased by twenty-four.
- 11) Twice a number divided by twenty-five.
- 12) A number increased by twelve.
- 13) A number decreased by twenty-eight.

## Answers of Translate Phrases into an Algebraic Statement



Write an algebraic expression for each phrase.

- 1) Twice a number divided by forty.  $\Rightarrow \frac{2x}{40}$
- 2) A number decreased by three times the sum of a number and forty.  $\Rightarrow (x - 3)(x + 40)$
- 3) The difference between thirty-six and a number.  $\Rightarrow 36 - x$
- 4) three times a number decreased by twenty.  $\Rightarrow 3(x - 20)$
- 5) A number decreased by twelve.  $\Rightarrow x + 12$
- 6) The difference between eight and a number.  $\Rightarrow 8 - x$
- 7) seven times the sum of a number and thirty-five.  $\Rightarrow 7(x + 35)$
- 8) The quotient of nine and a number.  $\Rightarrow \frac{9}{x}$
- 9) A number decreased by thirty-six.  $\Rightarrow x + 36$
- 10) A number increased by twenty-four.  $\Rightarrow x + 24$
- 11) Twice a number divided by twenty-five.  $\Rightarrow \frac{2x}{25}$
- 12) A number increased by twelve.  $\Rightarrow x + 12$
- 13) A number decreased by twenty-eight.  $\Rightarrow x + 28$