

Objective #4

Translate word phrases to inequalities (Page 1 of 2)

1. Which inequality matches the sentence? When a number is decreased by 4, the result is more than 4.

[A] $x - 4 > 4$ [B] $x + 4 < 4$ [C] $x - 4 < 4$ [D] $x + 4 > 4$

$$x - 4 > 4$$

2. Write an inequality to represent the sentence: When a number is multiplied by -2, the result is greater than -6.

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$$x(-2) > -6$$

$$\Rightarrow -2x > -6$$

Translate word phrases to inequalities (Page 2 of 2)

3. Which inequality does the sentence represent?

When a number is divided by 2, and the quotient is increased by 3, the result is more than 10.

[A] $\frac{x+3}{2} < 10$

[B] $\frac{x+3}{2} > 10$

[C] $\frac{x}{2} + 3 > 10$

[D] $\frac{x}{2} + 3 < 10$

quotient

already a fraction

$$\left(\frac{x}{2}\right) + 3 > 10$$

4. Write an inequality that represents the sentence:

When a number is divided by 6, and the quotient is decreased by 4, the result is more than 5.

$$\left(\frac{x}{6}\right) - 4 > 5$$

quotient