

Translating Linear Inequalities

Translate each verbal phrase into an inequality.

- ① Value of x is greater than 7.

- ② 18 is less than x .

- ③ 2 is more than x .

- ④ x is greater than or equal to 14.

- ⑤ x is less than or equal to 10.

- ⑥ value of x is not greater than 18.

- ⑦ The product of x and 4 is not greater than 16.

- ⑧ x is greater than or equal to 2.

- ⑨ value of x is at least 1.

- ⑩ 11 is not more than x .

- ⑪ A total of 6 and x is less than 10.

- ⑫ x reduced by 13 is at least 15.

- ⑬ The ratio of x to 4 is not less than 9.

- ⑭ The quotient of x and 2 is less than or equal to 5.

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Answers

- ① Value of x is greater than 7.

$$x > 7$$

- ② 18 is less than x .

$$x > 18$$

- ③ 2 is more than x .

$$x < 2$$

- ④ x is greater than or equal to 14.

$$x \geq 14$$

- ⑤ x is less than or equal to 10.

$$x \leq 10$$

- ⑥ value of x is not greater than 18.

$$x \nless 18$$

- ⑦ The product of x and 4 is not greater than 16.

$$4x \nless 16$$

- ⑧ x is greater than or equal to 2.

$$x \geq 2$$

- ⑨ value of x is at least 1.

$$x \geq 1$$

- ⑩ 11 is not more than x .

$$11 \nless x$$

- ⑪ A total of 6 and x is less than 10.

$$6 + x < 10$$

- ⑫ x reduced by 13 is at least 15.

$$x - 13 \geq 15$$

- ⑬ The ratio of x to 4 is not less than 9.

$$\frac{x}{4} \nless 9$$

- ⑭ The quotient of x and 2 is less than or equal to 5.

$$\frac{x}{2} \leq 5$$