

Name : _____

Translating Linear Inequalities

TMS2

Translate each verbal phrase into an inequality.

1) Two-thirds of the sum of x and 4 is greater than 9

2) Three added to two-ninths of x is atleast 1

3) Product of x and 7 is less than 2

4) Three-fourths of x is less than 12

5) Five-sevenths of x is less than 10

6) Six is not greater than x

7) One-seventh of x is less than 14

8) Two-ninths added to product of x and 4 is atmost 5

9) Sixteen greater than two-fifths of x added to 3

10) Half of eleven subtracted from product of x and 8 is atleast 7

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Answer Key

Translating Linear Inequalities

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Translate each verbal phrase into an inequality.

1) Two-thirds of the sum of x and 4 is greater than 9

$$\frac{2}{3}(x + 4) > 9$$

2) Three added to two-ninths of x is atleast 1

$$3 + \frac{2}{9}x \geq 1$$

3) Product of x and 7 is less than 2

$$\frac{1}{5} - 7x < 2$$

4) Three-fourths of x plus 12 is less than or equal to 8

$$\frac{3}{4}x + 12 \leq 8$$

5) Five-sevenths of x minus 10 is greater than 2

$$2 - \frac{5}{7}x > 10$$

6) Six is not greater than one-third of x minus 11

$$6 \leq \frac{1}{3}x - 11$$

7) One-seventh of x plus 9 is greater than 3

$$\frac{1}{7}x + 9 > 3$$

8) Two-ninths added to product of x and 4 is atmost 5

$$\frac{2}{9} + 4x \leq 5$$

9) Sixteen greater than two-fifths of x added to 3

$$16 > \frac{2}{5}x + 3$$

10) Half of eleven subtracted from product of x and 8 is atleast 7

$$8x - \frac{11}{2} \geq 7$$

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