

Name : _____

Translating Linear Inequalities

TMS1

Translate each verbal phrase into an inequality.

1) Two-thirds of x plus 6 is greater than 5

2) Half of seven added to product of x and 4 is less than 1

3) Five less than seven

4) Half of nine subtracted from x is at least 2

5) Six more than three times x

6) Two added to five times x

7) Product of x and 3 is less than 15

8) The quotient of z and 9 is greater than three times of x plus 1

9) Three-eighths of x subtracted from 6 is less than or equal to 4

10) Nine is greater than 2 subtracted from three-fifths of x

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Answer Key

Translating Linear Inequalities

TMS1

Translate each verbal phrase into an inequality.

1) Two-thirds of x plus 6 is greater than 5

$$\frac{2}{3}x + 6 > 5$$

2) Half of seven added to product of x and 4 is less than 1

$$\frac{7}{2} + 4x < 1$$

3) Five less than seven

$$5 < \frac{7}{4}x + 10$$

4) Half of nine subtracted from x is at least 2

$$12x - \frac{9}{2} \geq 2$$

5) Six more than three times x

$$(x - 7) + 6 < 5$$

6) Two added to five times x is less than or equal to 19

$$2 + \frac{5}{6}x \leq 19$$

7) Product of x and 8 is less than 15

$$\frac{1}{6} - 8x < 15$$

8) The quotient of z and 9 is greater than three times of x plus 1

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

9) Three-eighths of x subtracted from 6 is less than or equal to 4

$$6 - \frac{3}{8}x \leq 4$$

10) Nine is greater than 2 subtracted from three-fifths of x

$$9 > \frac{3}{5}x - 2$$

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