

Name : \_\_\_\_\_

## Translating Linear Inequalities

TMS4

Translate each verbal phrase into an inequality.

1) Twelve-fifths added to product of  $x$  and 10 is greater than 8

\_\_\_\_\_

2) Seventeen greater than or equal to four subtracted from six-sevenths of  $x$

\_\_\_\_\_

3) Four-ninths added to

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\_\_\_\_\_

4) One-eighth of  $x$  plus

\_\_\_\_\_

5) Twelve is greater than

\_\_\_\_\_

6) Eight-thirds of  $x$  plus

\_\_\_\_\_

7) Six subtracted from

\_\_\_\_\_

8) Product of  $x$  and 6 added to half of one is less than or equal to 1

\_\_\_\_\_

9) Four added to three-fifths of  $x$  is greater than 2

\_\_\_\_\_

10) Two-sevenths of the sum of  $x$  and 9 is less than 3

\_\_\_\_\_

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## Answer Key

### Translating Linear Inequalities

TMS4

Translate each verbal phrase into an inequality.

1) Twelve-fifths added to product of x and 10 is greater than 8

$$\frac{12}{5} + 10x > 8$$

2) Seventeen greater than or equal to four subtracted from six-sevenths of x

$$17 \geq \frac{6}{7}x - 4$$

3) Four-ninths added to product of x and 5 is less than 3

$$\frac{4}{9} + 5x < 3$$

4) One-eighth of x plus 11 is less than or equal to 7

$$\frac{1}{8}x + 11 \leq 7$$

5) Twelve is greater than one-sixth of x minus 2

$$12 > \frac{1}{6}x - 2$$

6) Eight-thirds of x plus 5 is greater than or equal to 13

$$5 - \frac{8}{3}x \geq 13$$

7) Six subtracted from product of x and 7 is less than 9

$$\frac{7}{4}x - 6 < 9$$

8) Product of x and 6 added to half of one is less than or equal to 1

$$6x + \frac{1}{2} \leq 1$$

9) Four added to three-fifths of x is greater than 2

$$4 + \frac{3}{5}x > 2$$

10) Two-sevenths of the sum of x and 9 is less than 3

$$\frac{2}{7}(x + 9) < 3$$

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