

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

## Translating Linear Inequalities

TMS3

Translate each verbal phrase into an inequality.

1) One-fifth of  $x$  plus 10 is at most two

\_\_\_\_\_

2) Three-fifths added to product of  $x$  and 12 is greater than 1

\_\_\_\_\_

3) Four-sevenths of  $x$

\_\_\_\_\_

4) Eight greater than

\_\_\_\_\_

5) Half of thirteen subtracted from  $x$  is at most 3

\_\_\_\_\_

6) Three-fourths of  $x$

\_\_\_\_\_

7) Fifteen is not greater than  $x$

\_\_\_\_\_

8) Five-sixths of the sum of  $x$  and 7 is at least 1

\_\_\_\_\_

9) Two added to one-eighth of  $x$  is less than or equal to 4

\_\_\_\_\_

10) Product of  $x$  and 10 subtracted from one-ninth is greater than 5

\_\_\_\_\_

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## Answer Key

### Translating Linear Inequalities

TMS3

Translate each verbal phrase into an inequality.

1)	One-fifth of x plus 10 is at most two	$\frac{1}{5}x + 10 \leq 2$
2)	Three-fifths added to product of x and 12 is greater than 1	$\frac{3}{5} + 12x > 1$
3)	Four-sevenths of x plus 3 is less than 5	$\frac{4}{7}x + 3 < 5$
4)	Eight greater than x is at least 14	$8 \geq \frac{6}{7}x + 14$
5)	Half of thirteen subtracted from x is at most 3	$9x - \frac{13}{2} \leq 3$
6)	Three-fourths of x plus 4 is greater than or equal to 6	$4 - \frac{3}{4}x \geq 6$
7)	Fifteen is not greater than two-thirds of x	$15 \leq \frac{2}{3}x - 8$
8)	Five-sixths of the sum of x and 7 is at least 1	$\frac{5}{6}(x + 7) \geq 1$
9)	Two added to one-eighth of x is less than or equal to 4	$2 + \frac{1}{8}x \leq 4$
10)	Product of x and 10 subtracted from one-ninth is greater than 5	$\frac{1}{9} - 10x > 5$

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