Worksheet Solutions 2.5b Translate Words into a Linear Inequality, then Solve it

1. Translate “Eight less than twice y is at least 18” into a linear inequality, then solve it.

First, translate. “Eight less than” something is the something minus 8. “Twice y” is two times y. “Is at least” means it is that much or more than (greater than or equal to).

 

Now solve it. Add 8 to both sides.



Divide both sides by 2.

 This is the algebraic form for the answer. The interval form is  .

We could put the answer back into words and say, “y is at least 13.”