

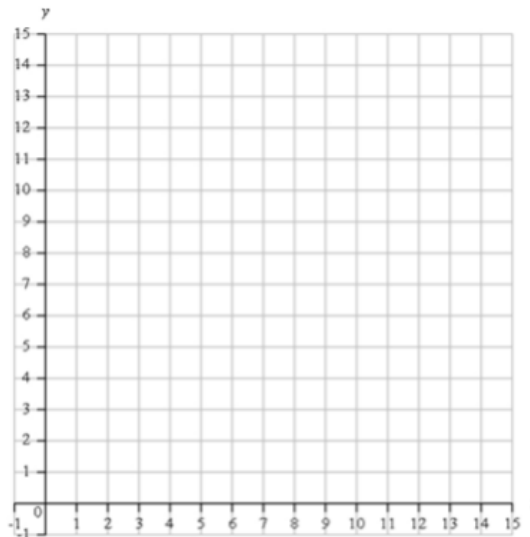
Inequalities Applications

Ashley can spend no more than \$30 on buying liters of soda and bags of chips for an upcoming party. A liter of soda costs \$3 and bag of chips cost \$5.

a.) Write the inequality, where x means # of liters of soda and y means # of bags of chips.

b.) Graph the inequality.

c.) Choose one point in the solution region and explain it's meaning.



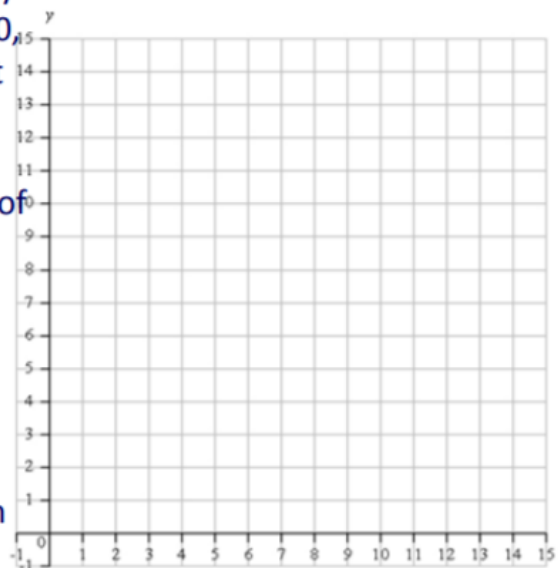
Inequalities Applications

Luther is booking a band and a DJ for a dance, and wants to keep the cost of the entertainment under \$300. A band can play for part of the time at an hourly rate of \$30, and a DJ can play for the remaining time at an hourly rate of \$20.

a.) Write the inequality, where x means # of hours the band will play and y means # of hours the DJ will play.

b.) Graph the inequality.

c.) Choose one point in the solution region and explain it's meaning.



Inequalities Applications

Cassidy, the owner of a landscaping company, is ordering rakes and shovels from an equipment wholesaler. She doesn't want to spend more than \$160 total for her purchases. She can get the rakes at a cost of \$12 apiece and the shovels at a cost of \$16 apiece.

x = the number of rakes ordered

y = the number of shovels ordered

- Write the inequality.
- Graph the inequality.
- Choose one point in the solution region and explain it's meaning.

