OTHE O. HIDGUGHTION	Unit	6:	Ineq	ual	ities
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Lesson 6: Solving Story Problems Using Inequalities

Use an inequality to solve each problem.

The ninth grade class at SHS is having a fundraiser. They need to raise at least \$1,500. They are selling magazines for \$7 each. How many subscriptions does that class need to sell to meet their fundraising goal?

7m > 1,500

They must sell the least 215 magazines.

2. Alaina can spend no more than \$28 on iTunes downloads. Each song download costs \$1.29 and it costs \$9.99 to download an entire album. Alaina wants to download the newest Michael Buble album. How many individual songs can she download after she downloads the album?

1.29 
$$\times$$
 + 9.99  $\leq$  28  
1.29  $\times$  + 9.99  $\leq$  28 -9.99  
1.29  $\times$   $\leq$  18.01  
1.29  $\times$   $\times$   $\times$   $\times$  1.29  
1.29  $\times$   $\times$  18.01  
1.29  $\times$  19.01  
1.29  $\times$  19.01  
1.29  $\times$  19.01  
1.20  $\times$  19.01  
1.20  $\times$  19.01  
1.21  $\times$  19.01  
1.22  $\times$  19.01  
1.24  $\times$  19.01  
1.25  $\times$  19.01  
1.26  $\times$  19.01  
1.27  $\times$  19.01  
1.28  $\times$  19.01  
1.29  $\times$  19.01  
1.29  $\times$  19.01  
1.20  $\times$  19.01  
1.20

3. Nicholas wants to go on his class trip to New York City. It Nicholas earns \$8 per hour babysitting, how many hours does he need to babysit in order to raise at least the \$500 needed for the trips

$$8h \geq 500$$
 $8h \geq 500$ 
 $h \geq 62.5$ 

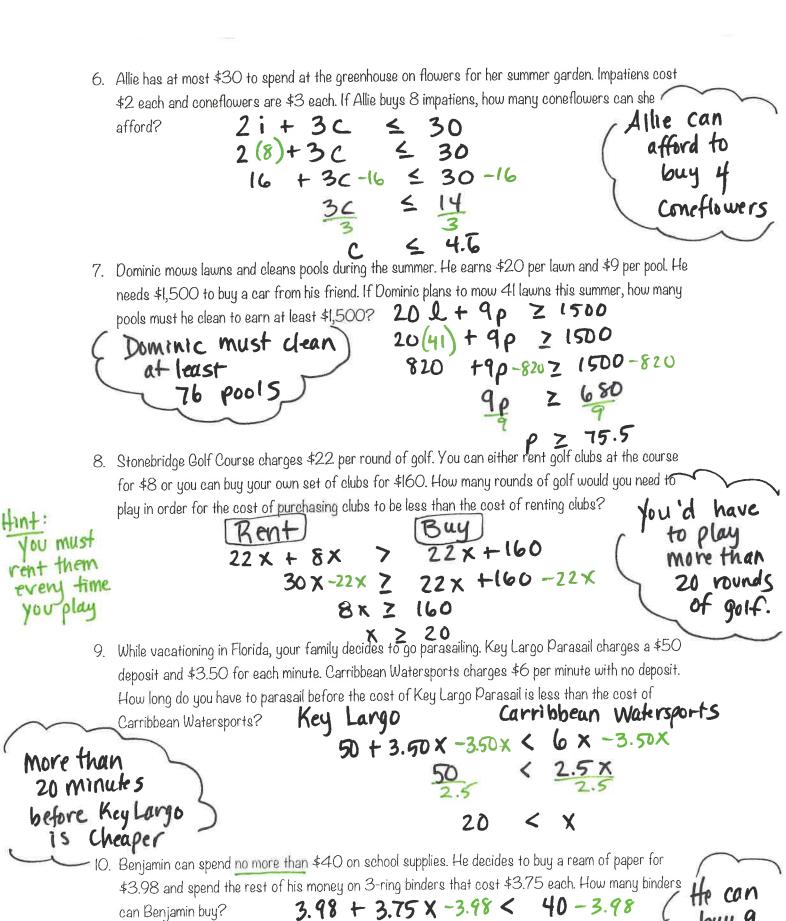
MOUYS

4. Sammy has \$2,450 in his bank account. He spends \$20 each week on gas money. After how many weeks will Sammy's account balance fall below \$1,000?

12.5 Weeks

5. Kim and Kelley are saving for their annual vacation. They are going to Hawaii and their plane tickets cost \$2,418 total. They have saved \$1,804 so far. If they are able to save \$55 per week, how many weeks of saving will it take before they have saved at least \$2,418?

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X < 9.61

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