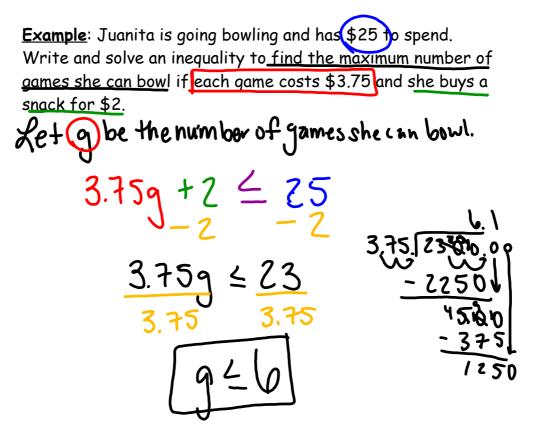
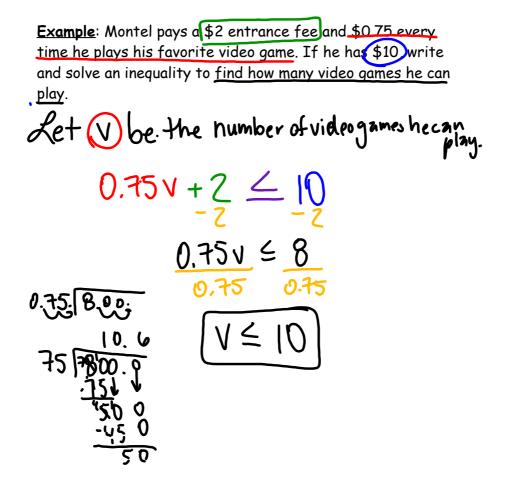
8.7 Writing and Solving Inequalities

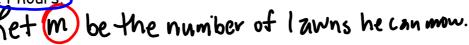


Example: Keiko prepared 28 bags of granola to sell at a school fundraiser. She also received a \$10 donation. Write and solve an inequality to find the price she should charge for each bag of granola if she wants to raise at least \$115.

Let (b) be the price of each bay of granola. $28b + 10 \ge$ 28105.00 <u>- 84</u>↓ ·84℃ ZBb ≥ 105 $h \geq 03.75$ 140



Example: Alfonzo works for a lawn service company. It takes Alfonzo $\frac{3}{4}$ hour to mow a lawn. If he works more than 8 hours, he gets a $\frac{1}{2}$ hour lunch. Write and solve an inequality to find the number of lawns he can mow if he works at least 14 hours.



$$\frac{3}{4}m + \frac{1}{2} \ge 14 | \frac{14^{2}}{12^{2}} = \frac{26}{2} - \frac{1}{2} \\ -\frac{1}{2} | \frac{14^{2}}{12^{2}} = \frac{26}{2} - \frac{1}{2} \\ -\frac{1}{2} | \frac{14^{2}}{12^{2}} = \frac{26}{2} - \frac{1}{2} \\ -\frac{1}{2} | \frac{1}{2} = \frac{27}{2} \\ -\frac{1}{2} | \frac{3}{2} \\ -\frac{1}{2} | \frac{3$$