Chack If Out Progress Check BigIdeasMath Com Solve the inequality. Graph the solution. (Section 4.3 and Section 4.4) **1.** $3p \le 18$ $P \le 0$ **2.** $2x > -\frac{3}{5}$ $\chi > -\frac{3}{10}$ **3.** $2x > -\frac{3}{5}$ $\chi > -\frac{3}{10}$ 3. $\frac{r}{3} \ge -5$ $r \ge -5$ $r \ge -5$ $r \ge -5$ $4. -\frac{z}{8} < 1.5$ Z > -12 $r \ge -12$ $r \ge -12$ $r \ge -12$ $r \ge -12$ **5.** $3n + 2 \le 11$ $n \le 3$ **6.** $-2 < 5 - \frac{k}{2}$ $K \le 14$ 7. 1.3m - 3.8 < -1.2 MLZ 02 8. $4.8 \ge 0.3(12 - y)$ $Y \ge -4$ -4 0

Write the word sentence as an inequality. Then solve the inequality. (Section 4.3) n L 20

- 9. The quotient of a number and 5 is less than 4. $\frac{1}{5} \angle 4$ 6n 2-14 n>-23
- **10.** Six times a number is at least -14.



- 11. PEPPERS You have \$18 to buy peppers. Peppers cost \$1.50 each. Write and solve an $1.5 \chi \le 18$ inequality that represents the number of peppers you can buy. (Section 4.3)
- 12. MOVIES You have a gift card worth \$90. You want to buy several movies that cost \$12 $Q_0 - 12\nu \ge 30$ each. Write and solve an inequality that represents the number of movies you can 725 buy and still have at least \$30 on the gift card. (Section 4.4)

13. CHOCOLATES Your class sells boxes of chocolates to raise \$500 for a field trip. You earn \$6.25 for each box of chocolates sold. Write and solve an inequality that represents the number of boxes your class must sell to meet or exceed the fundraising goal. (Section 4.3) (0.25×2500)

x > 80



14. FENCE You want to put up a fence that encloses a triangular region with an area greater than or equal to 60 square feet. What is the least possible value of *c*? Explain. (Section 4.3)



A= 1/2 bh

X 4 12



15. GUMBALLS You have \$2.50. Each gumball in a gumball machine costs \$0.25. Write and solve an inequality that represents the number of gumballs you can buy. $0.25n \le 2.5$

- 16. PARTY You can spend no more than \$100 on a party you are hosting. The cost per guest is \$8.
- $8n \pm 100$ **a.** Write and solve an inequality that represents the number of guests you can invite to the party.
 - **b.** What is the greatest number of guests that you can invite to the party? Explain your reasoning.





- e 12 because you can not invite 1/2 of a guest.
- 17. BASEBALL CARDS You have \$30 to buy baseball cards. Each pack of cards costs \$5. Write and solve an inequality that represents the number of packs of baseball cards you can buy and still have at least \$10 left.

 $30 - 5\chi \ge 10$

XLY