3-8 Exercises

California Standards Practice
AF4.1

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GUIDED PRACTICE

See Example 1

Solve and graph.

1. $3k + 5 > 11$
2. $2z - 29.5 \leq 10.5$
3. $6y + 12 < -36$
4. $-4x + 6 \geq 14$
5. $2y + 2.5 \geq 16.5$
6. $3k - 2 > 13$

See Example 2

7. $\frac{x}{15} + \frac{1}{5} < \frac{2}{5}$
8. $\frac{b}{10} - \frac{3}{5} \geq -\frac{1}{2}$
9. $\frac{h}{3} - 2 \leq -\frac{5}{3}$
10. $\frac{c}{8} + \frac{1}{2} > \frac{3}{4}$
11. $\frac{1}{2} + \frac{d}{6} < \frac{1}{3}$
12. $\frac{2}{3} \geq \frac{6m}{9}$

See Example 3

13. The chess club is selling caps to raise $425 for a trip. They have $175 already. If the club members sell caps for $12 each, at least how many caps do they need to sell to make enough money for their trip?

INDEPENDENT PRACTICE

See Example 1

Solve and graph.

14. $8k - 6 > 18$
15. $5x + 3 > 23$
16. $3p + 3 \geq -36$
17. $13 \geq 11q - 9$
18. $3.6 + 7.2n < 25.2$
19. $-7x - 15 \geq 34$

See Example 2

20. $\frac{p}{15} + \frac{4}{5} < \frac{1}{3}$
21. $\frac{a}{9} + \frac{2}{3} \geq \frac{1}{3}$
22. $-\frac{1}{3} + \frac{n}{12} > -\frac{1}{4}$
23. $-\frac{2}{3} \leq \frac{1}{18}k - \frac{5}{6}$
24. $\frac{4}{7} + \frac{n}{14} \leq -\frac{3}{7}$
25. $\frac{1}{3} + \frac{r}{18} < \frac{1}{2}$

See Example 3

26. Josef is on the planning committee for the eighth-grade party. The food, decoration, and entertainment costs a total of $350. The committee has $75 already. If the committee sells the tickets for $5 each, at least how many tickets must be sold to cover the remaining cost of the party?

PRACTICE AND PROBLEM SOLVING

Extra Practice
See page EP7.

Solve and graph.

27. $3p - 11 \leq 11$
28. $9n + 10 > -17$
29. $3 - 5w < 8$
30. $-6x - 18 \geq 6$
31. $12a + 4 > 10$
32. $-4y + 3 \geq 17$
33. $3q - 5q > -12$
34. $\frac{3m}{4} > \frac{5}{8}$
35. $4b - 3.2 < 7.6$
36. $3k + 6 \geq 4$
37. $\frac{90}{4} \leq -\frac{5}{6}f$
38. $-\frac{5}{9}v \geq -\frac{1}{3}$

39. **Reasoning** What is the least whole number that is a solution of $2r - 4.4 > 8.6$?

40. **Entertainment** A speech is being given in a gymnasium that can hold no more than 650 people. A permanent bleacher will seat 136 people. The event organizers are setting up 25 rows with an equal number of chairs. At most, how many chairs can be in each row?