## CRCT GPS Practice = Chapter 12

LESSON 12-1

## Solve. Check each answer.

1. $4 c-13=15$
2. $3 h+14=23$
3. $-5 j-13=22$
4. $\frac{e}{7}+2=5$
5. $\frac{m}{6}-3=1$
6. $\frac{x}{3}+5=-13$
7. If you multiply the number of DVDs Sarah has by 6 and then add 5 , you get 41. How many DVDs does Sarah have?

## LESSON 12-2

Solve.
8. $2 w-11+4 w=7$
9. $7 v+5-v=11$
10. $-7 z+4-z=-12$
11. $\frac{5 x-7}{3}=15$
12. $2 t-7-5 t=11$
13. $\frac{6 t+8}{5}=2$
14. $12 a-3-8 a=-1$
15. $\frac{2.9 h-5.1}{2}=4.7$
16. $\frac{3 s-14}{4}=4$
17. $\frac{10-4 t}{8}=-12$
18. Erika has received scores of $82,87,93,95,88$, and 90 on math quizzes. What score must Erika get on her next quiz to have an average of 90 ?

## LESSON 12-3

Group the terms with variables on one side of the equal sign, and simplify.
19. $6 a=4 a-8$
20. $3 d-5=7 d-9$
21. $-2 j+6=j-3$
22. $7+5 m=2-m$

Solve.
23. $7 y-9=-2 y$
24. $2 c-13=5 c+11$
25. $\frac{2}{5} g+9=-6-\frac{6}{10} g$
26. $7 d+4=8-d$
27. $-3 p+8=-7 p-12$
28. $1.2 k+2.3=-0.5 k+7.4$
29. Roberta and Stanley are collecting signatures for a petition. So far, Roberta has twice as many signatures as Stanley. If she collects 30 more signatures, she will have 4 times as many signatures as Stanley currently has. How many signatures has Stanley collected?
30. Gym members pay $\$ 3$ per workout with a one time membership fee of $\$ 98$. Nonmembers pay $\$ 10$ per workout. How many workouts would both a member and a nonmember have to do to pay the same amount?

LESSON 12-4.
Write an inequality for each situation.
31. The cafeteria could hold no more than 50 people.
32. There were fewer than 20 boats in the marina.

Graph each inequality.
33. $y<-2$
34. $f \geq 3$
35. $n \leq-1.5$
36. $x>4$

Graph each compound inequality.
37. $1<s<4$
38. $-1 \leq v<2$
39. $w<0$ or $w \geq 5$
40. $-3.5 \leq y<-2$

## LESSON 12-5

Solve. Then graph each solution set on a number line.
41. $c-6>-5$
42. $v-3 \geq 1$
43. $w-6 \leq-7$
44. $a-2 \leq 5$

Solve. Check each answer.
45. $q+3 \leq 5$
46. $m+1>0$
47. $p+7 \leq 4$
48. $z+2 \geq-3$
49. By Saturday night, 3 inches of rain had fallen in Happy Valley. The weekend forecast predicted at least 8 inches of rain. How much more rain must fall on Sunday for this forecast to be correct?

## LESSON 12-6

Solve. Check each answer.
50. $\frac{a}{5} \leq 4.5$
51. $-\frac{v}{2}>2$
52. $\frac{x}{3.9} \geq-2$
53. $-\frac{c}{4}<2.3$
54. $13 y<39$
55. $2 t \leq 5$
56. $-7 r>56$
57. $3 s \geq-4.5$
58. The local candy store buys candy in bulk and then sells it by the pound. If the store owner spends $\$ 135$ on peppermints and then sells them for $\$ 3.50$ per pound, how many pounds must he sell to make a profit?

## LESSON 12-7

Solve. Then graph each solution set on a number line.
59. $\frac{m}{3}-1 \leq 2$
60. $7.2 x-4.8>24$
61. $-5.5 h+2<13$
62. $-1-\frac{s}{3.5} \geq 1$
63. $-\frac{w}{1.5}-8 \leq-10$
64. $4 j-6>16$
65. $5-2 u<15$
66. $\frac{r}{7}-1 \geq 0$
67. $5-\frac{m}{9} \leq 17$
68. Jill, Serena, and Erin are trying to earn enough money to rent a beach house for a week. They estimate that it will cost at least $\$ 1,650$. If Jill has already earned $\$ 600$, how much must each of the others earn?

