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## ${ }^{\text {LIsson }}$ Practice A <br> 9.4 For use witt pages 575-580

## Match the equation with its solutions.

1. $(x+4)(x+5)=0$
A. -5 and 4
2. $(x-4)(x+5)=0$
B. -5 and -4
3. $(x-5)(x-4)=0$
C. 4 and 5

## Solve the equation.

4. $(x+6)(x+2)=0$
5. $(p-5)(p+3)=0$
6. $(b-7)(b-10)=0$
7. $(m-8)(m+1)=0$
8. $(a-9)(a+9)=0$
9. $(y+15)(y+12)=0$
10. $(c-25)(c+50)=0$
11. $(2 z-2)(z+3)=0$
12. $(2 n-6)(n-2)=0$

## Factor out the greatest common monomial factor.

13. $4 m-2$
14. $5 x-10$
15. $6 y+15$
16. $8 x+8 y$
17. $7 a-7 b$
18. $2 a+10 b$
19. $9 m-18 n$
20. $15 p-3 q$
21. $12 x+4 y$
22. $2 c^{2}+4 c$
23. $9 m^{3}+m^{2}$
24. $2 w^{2}+4 w$

Match the equation with its solutions.
25. $4 a^{2}+a=0$
26. $a^{2}+4 a=0$
27. $a^{2}-4 a=0$
A. 0 and 4
B. 0 and -4
C. 0 and $-\frac{1}{4}$

## Solve the equation.

28. $a^{2}+8 a=0$
29. $n^{2}-7 n=0$
30. $2 w^{2}+2 w=0$
31. $3 p^{2}-3 p=0$
32. $4 c^{2}-8 c=0$
33. $5 x^{2}+10 x=0$
34. Hot Air Balloon An object is dropped from a hot-air balloon 1296 feet above the ground. The height of the object is given by
$h=-16(t-9)(t+9)$
where the height $h$ is measured in feet, and the time $t$ is measured in seconds.
After how many seconds will the object hit the ground?
35. Kickball A kickball is kicked upward with an initial vertical velocity of 3.2 meters per second. The height of the ball is given by
$h=-9.8 t^{2}+3.2 t$
where the height $h$ is measured in feet, and the time $t$ is measured in seconds.
After how many seconds does the ball land?
