

## Answer Key

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### Practice A

1.  $(1, 1, 1)$  is a solution. 2.  $(0, 3, 1)$  is a solution. 3.  $(2, 1, 6)$  is *not* a solution.
4.  $(3, 2, -1)$  5.  $(4, -1, 3)$  6.  $(3, -5, -4)$
7.  $(-9, 4, 2)$  8.  $(2, 2, 0)$  9.  $(-1, 3, 2)$
10.  $(1, 1, 3)$  11.  $(2, 1, 4)$  12.  $(-1, 0, 5)$
13. infinitely many solutions 14. no solutions
15.  $(2, 1, 3)$  16.  $x + y + z = 22$   
 $3y + 4z = 54$   
 $x = z$
17. Six are under age 5, 10 are ages 5–16, and 6 are ages 16 and up.