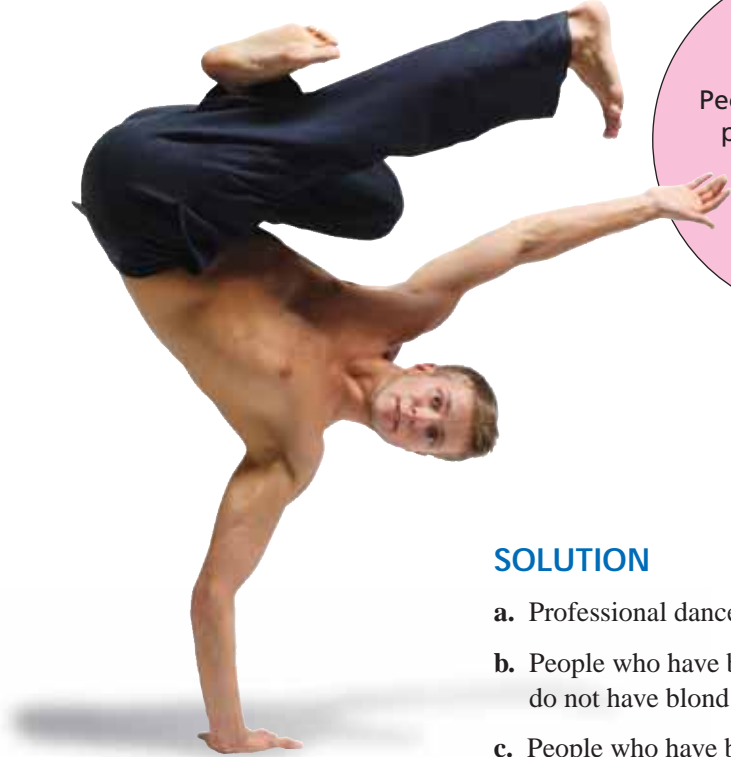
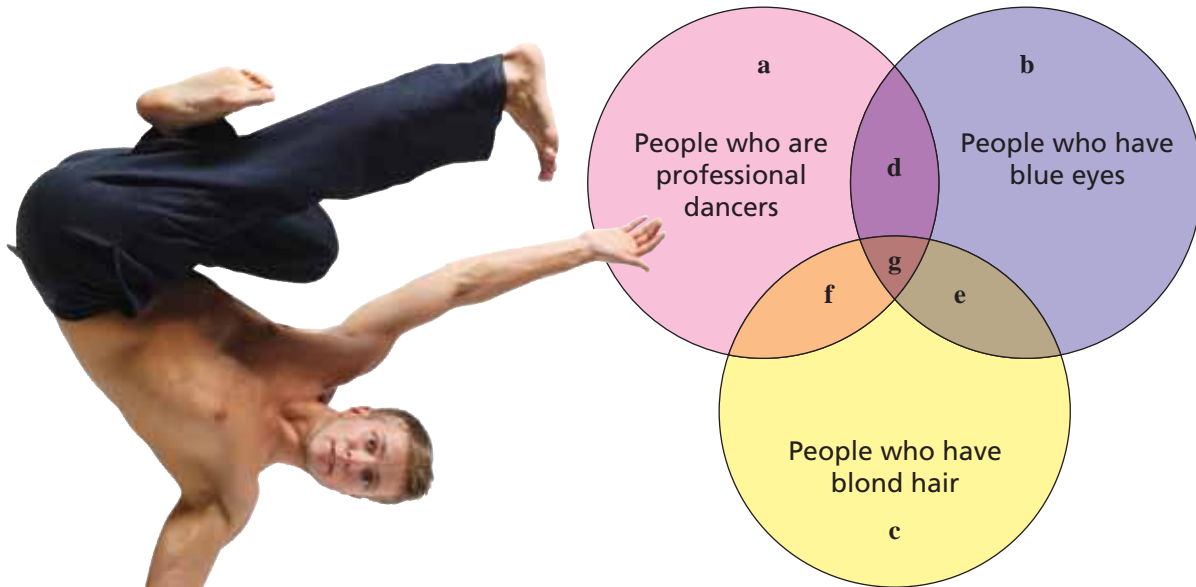


**EXAMPLE 2** Describing Set Diagram Regions

The set diagram has seven regions. Describe the characteristics of people who are in each region.

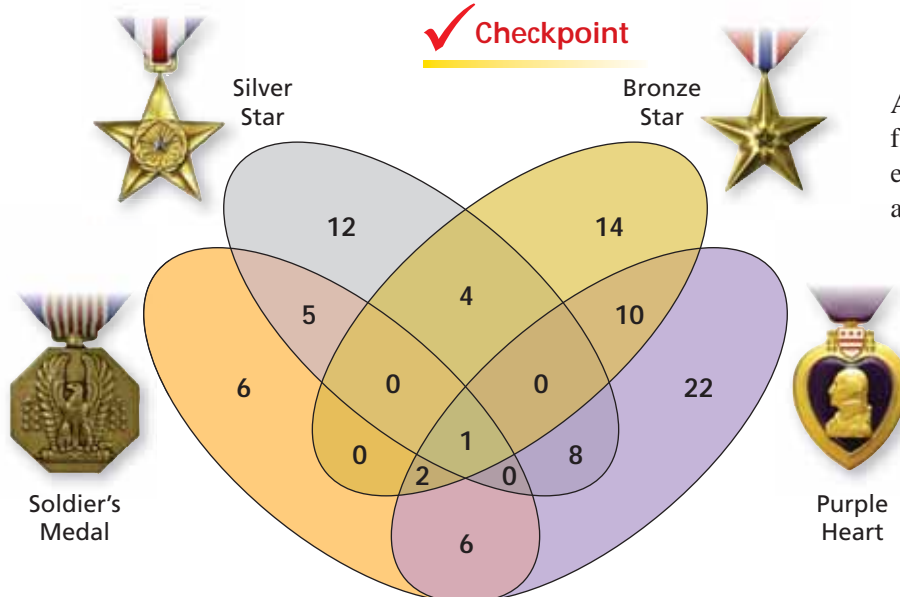


**SOLUTION**

- a. Professional dancers who do not have blue eyes or blond hair
- b. People who have blue eyes but are not professional dancers and do not have blond hair
- c. People who have blond hair but are not professional dancers and do not have blue eyes
- d. Professional dancers who have blue eyes but do not have blond hair
- e. People who have blue eyes and blond hair but are not professional dancers
- f. Professional dancers who have blond hair but do not have blue eyes
- g. Professional dancers with blue eyes and blond hair

**Checkpoint**

Help at [Math.andYOU.com](http://Math.andYOU.com)



A group of military veterans gathers for a reunion dinner. Each veteran earned a Soldier's Medal, a Silver Star, a Bronze Star, or a Purple Heart.

- h. How many earned a Purple Heart?
- i. How many earned a Purple Heart *or* a Bronze Star?
- j. How many earned a Purple Heart *and* a Bronze Star?
- k. How many of the veterans earned all four medals? Explain.