

**1-42. See below.**

- a.  $100^\circ$
- b.  $170^\circ$
- c.  $50^\circ$

**1-43. See below.**

- a. Yes, it is correct because the two angles make up a  $90^\circ$  angle.
- b.  $x = 33^\circ$ , so one angle is  $33 - 10 = 23^\circ$  while the other is  $2(33) + 1 = 67^\circ$ .
- c.  $23^\circ + 67^\circ = 90^\circ$

**1-44. Perimeter: 74 centimeters, Area:  $231 \text{ cm}^2$**

**1-45. See below.**

- a.  $y = 5$
- b.  $r = 12$
- c.  $a = 6$
- d.  $m = 5$