6-55. See below.

- a. *x* ≈ 45.56
- b. *x* ≈ 10.63
- c. *x* ≈ 265.48
- d. *x* = 5

6-56. 9 square units; Students can find AC = 5 and then calculate $\frac{1}{2}$ (5)(3.6), or can use \overline{BC} as the base and calculate $\frac{1}{2}$ (2 + 4)(3).

6-57. See below.

- a. *m* = 33 m, *n* = 36 m
- b. Area (small) = 378 cm², perimeter (small) = 80 cm, area (big) = 850.5 m², and perimeter (big) = 120 m

6-58. See below.

- a. Similar because of AA~.
- b. Neither because angles are not equal.
- c. Congruent because of ASA \cong or AAS \cong .

6-59. See below.

- a. ≈ 71.56°
- b. *y* = *x* + 3
- c. (1, 4)

6-60. D