



**4-39. See below.**

- a.  $t = 11.524$
- b.  $p \approx 3.215$
- c.  $b \approx 148.505$

**4-40. See below.**

- a.  $x^2 + 18^2 = 30^2$ ,  $x = 24$
- b.  $2x + 20^\circ + 3x + 20^\circ + x + 2x = 360^\circ$ ,  $x = 40^\circ$
- c.  $\frac{5}{12} = \frac{3}{x}$ ;  $\frac{36}{5} = 7.2$

**4-41.** They are congruent. Possible response: Reflect  $\triangle ADS$  across a vertical line, then translate it.

**4-42.** 24 possible ways: ABCD, ABDC, ACBD, ACDB, ADBC, ADCB, BACD, BADC, BCAD, BCDA, BDAC, BDCA, CABD, CADB, CBAD, CBDA, CDAB, CDBA, DABC, DACB, DBAC, DBCA, DCAB, DCBA

**4-43.** Her father's eyes were  $\approx 69.126$  inches high.

**4-44. See below.**

- a.  $A = 144 \text{ cm}^2$ ,  $P = 52 \text{ cm}$
- b.  $A = 696.67 \text{ m}^2$ ,  $P = 114.67 \text{ m}$
- c.  $A = 72 \text{ sq cm}$ ,  $P = 48 \text{ cm}$
- d.  $A = 130 \text{ sq. feet}$ ,  $P = 58 \text{ feet}$