6-23. See below.

a. Not similar because there are not three pairs of corresponding angles that are congruent.

b. Similar (AA ~).

6-24. See below.

a. $y = \frac{5}{2}x - 8$

b.
$$y = 2x + 1$$

6-25. See below.

b.
$$\frac{14}{22} = \frac{10}{DE}$$
, *DE* ≈ 15.71

6-26. See below.

a. Yes because of AAS \cong or ASA \cong ; $\Delta DEF \cong \Delta LJK$.

b. One possible answer, a reflection across line segment *JK* and then a translation of ΔDEF to line up point *J* and point *E*, followed by a rotation.

c. $KL \approx 4.3$ units

6-27. *c* = 10 by substitution.

6-28. See below.

a. $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B) = \frac{64}{212} + \frac{112}{212} - 0 = \frac{176}{212} \approx 83.0\%$; the probability of A and B (the overlap) was 0.

b. $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B) \rightarrow 75\% = \frac{114}{212} + \frac{56}{212} - x \rightarrow x \approx 5.1\%$