6-23. See below.
a. Not similar because there are not three pairs of corresponding angles that are congruent.
b. $\quad$ Similar ( $A A^{\sim}$ ).

6-24. See below.
a. $y=\frac{\frac{5}{2}}{x-8}$
b. $\quad y=\frac{3}{2} x+1$

## 6-25. See below.

b. $\frac{14}{22}=\frac{10}{D E}, D E \approx 15.71$

## 6-26. See below.

a. Yes because of $\mathrm{AAS} \cong$ or $A S A \cong ; \triangle D E F \cong \Delta L J K$.
b. One possible answer, a reflection across line segment $J K$ and then a translation of $\triangle D E F$ to line up point $J$ and point $E$, followed by a rotation.
c. $K L \approx 4.3$ units

6-27. $c=10$ by substitution.
6-28. See below. was 0.
b. $\quad \mathrm{P}(\mathrm{A}$ or B$)=\mathrm{P}(\mathrm{A})+\mathrm{P}(\mathrm{B})-\mathrm{P}(\mathrm{A}$ and B$) \rightarrow 75 \%=\frac{114}{212}+\frac{56}{212}-x \rightarrow x \approx 5.1 \%$

