## 4-95. See below.

a. $\frac{8}{36}$
b. $\frac{4}{36}$
c. $\frac{24}{36}$

## 4-96. See below.

a. 5 ways.
b. 6 ways.
c. 11
d. $\frac{5}{11}$

## 4-97. See below.

a. $x=13$, Pythagorean Theorem
b. $x=80^{\circ}$, Alternate interior angles and the Triangle Angle Sum

4-98. $(x+2)(x+5)=40, x^{2}+7 x-30=0$, so $x=-10$ or 3 . Since $x$ cannot be negative, $x=3$. Therefore, the dimensions of the rectangle are 5 and 8 units.

## 4-99. See below.

a. Less than $45^{\circ}$
b. Equal to $45^{\circ}$
c. More than $45^{\circ}$

4-100. The slope is $-\frac{7}{10}$. Points will vary. $y=-0.7 x+82.5$ A few possible solutions: $(5,79)$, $(15,72),(25,65)$, etc.

