

## 8-71. See below.

a. $A=34$ units $^{2} ; P \approx 25.7$ units
b. $A=306$ units $^{2} ; P \approx 77$ units
c. ratio of the perimeters $=3$; ratio of the areas $=9$

8-72. 80 inches or $\approx 6.67$ feet
8-73. The area of the hexagon $\approx 23.4 \mathrm{ft}^{2}$. Adding the rectangles makes the total area $\approx 41.4 \mathrm{ft}^{2}$.
8-74. $\frac{\frac{4}{21}}{} \approx 19.05 \% ; k=0,6,10,12$ are factorable.

## 8-75. See below.

a. Reasoning will vary, but most students should realize that it is most likely you will earn more extra credit if the class spins the spinner with the options of 5 and 10 points.
b. Reasoning will vary, but now the first spinner is definitely more attractive.

8-76. $4 x^{2}=2 x^{2}+17 x-30, x=2.5$ or 6 : yes, there are two possible answers.
8-77. B

