

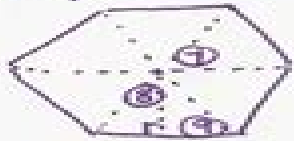
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① Equilateral Δ



$$\begin{aligned} m\angle 1: \frac{360}{3} &= 120^\circ \\ m\angle 2: \frac{1}{2}(120) &= 60^\circ \\ m\angle 3: \frac{1}{2}(60) &= 30^\circ \end{aligned}$$

③ Regular Hexagon:



$$\begin{aligned} m\angle 7 &= \frac{360}{6} = 60^\circ \\ m\angle 8 &= \frac{1}{2}(60) = 30^\circ \\ m\angle 9 &= 60^\circ \end{aligned}$$



$$\begin{aligned} 18 \text{ ft } A &= \frac{1}{2} P a \\ A &= \frac{1}{2}(108)(9\sqrt{3}) \\ &= \boxed{486\sqrt{3} \text{ ft}^2} \end{aligned}$$

$$\begin{aligned} P: 18 \cdot 6 &= 108 \\ a: 9\sqrt{3} \end{aligned}$$

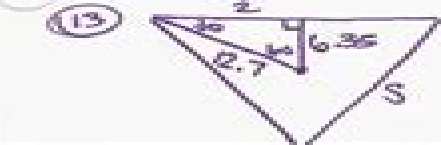


$$A = \frac{8^2\sqrt{3}}{4} = \boxed{16\sqrt{3} \text{ in}^2}$$



$$\begin{aligned} A &= \frac{1}{2} P a \\ &= \frac{1}{2}(36)(3\sqrt{3}) \\ &= \boxed{54\sqrt{3} \text{ m}^2} \end{aligned}$$

$$\begin{aligned} P: 6 \cdot 6 &= 36 \text{ in} \\ a: 3\sqrt{3} \end{aligned}$$



$$\begin{aligned} \text{So, } \frac{5}{2} &= 6.35\sqrt{3} \\ 8 &= 12.7\sqrt{3} \end{aligned}$$

$$A = \frac{5^2\sqrt{3}}{4} = \frac{(12.7\sqrt{3})^2\sqrt{3}}{4} = \frac{483.87\sqrt{3}}{4} = 209.52 \approx \boxed{210 \text{ in}^2}$$

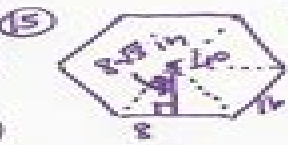
② Square:



$$\begin{aligned} m\angle 4: 90^\circ \\ m\angle 5: 45^\circ \\ m\angle 6: 45^\circ \end{aligned}$$



$$\begin{aligned} A &= L \cdot W \\ (6\sqrt{2})(6\sqrt{2}) &= 36 \cdot 2 = \boxed{72 \text{ cm}^2} \end{aligned}$$



$$\begin{aligned} P: 16 \cdot 6 &= 96 \\ a: 8\sqrt{3} \end{aligned} \quad A = \frac{1}{2} P a$$

$$\frac{1}{2}(96)(8\sqrt{3}) = \boxed{384\sqrt{3} \text{ in}^2}$$

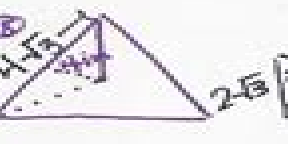


$$\begin{aligned} P: 6\sqrt{3} \cdot 6\sqrt{3} &= 36\sqrt{3} \\ a: 9 \end{aligned} \quad A = \frac{1}{2} P a$$

$$\frac{1}{2}(36\sqrt{3})(9) = \boxed{162\sqrt{3} \text{ m}^2}$$



$$\begin{aligned} 10\sqrt{3} \cdot 15 &= 150\sqrt{3} \\ 5\sqrt{3} \end{aligned} \quad A = \frac{S^2\sqrt{3}}{4} = \frac{(10\sqrt{3})^2\sqrt{3}}{4} = \frac{300\sqrt{3}}{4} = \boxed{75\sqrt{3} \text{ m}^2}$$



$$A = \frac{S^2\sqrt{3}}{4} = \frac{(4\sqrt{3})^2\sqrt{3}}{4} = \frac{48\sqrt{3}}{4} = \boxed{12\sqrt{3} \text{ in}^2}$$

Geometry Chapter 10 Resource Book Answer Key

CH Cherryholmes



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