

p. 548 (1-5, 10-18, 24-29, 29)
p. 561 (1, 4, 7, 8)

① Equilateral Δ

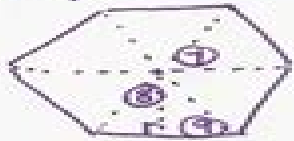


$$m\angle 1: \frac{360}{3} = 120^\circ$$

$$m\angle 2: \frac{1}{2}(120) = 60^\circ$$

$$m\angle 3: \frac{1}{2}(60) = 30^\circ$$

③ Regular Hexagon:



$$m\angle 7 = \frac{360}{6} = 60^\circ$$

$$m\angle 8 = \frac{1}{2}(60) = 30^\circ$$

$$m\angle 9 = 60^\circ$$



$$18 \text{ ft } A = \frac{1}{2} P a$$

$$A = \frac{1}{2}(108)(9\sqrt{3})$$

$$\boxed{486\sqrt{3} \text{ ft}^2}$$

$$P: 18 \cdot 6 = 108$$

$$a: 9\sqrt{3}$$



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



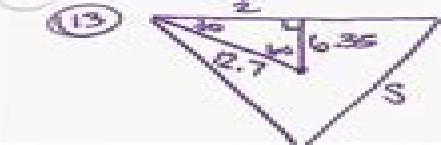
$$A = \frac{1}{2} P a$$

$$= \frac{1}{2}(36) 3\sqrt{3}$$

$$\boxed{54\sqrt{3} \text{ m}^2}$$

$$P: 6 \cdot 6 = 36 \text{ in}$$

$$a: 3\sqrt{3}$$



$$So, \frac{3}{4} = 6.35\sqrt{3}$$

$$8 = 12.7\sqrt{3}$$

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

② Square:



$$m\angle 4: 90^\circ$$

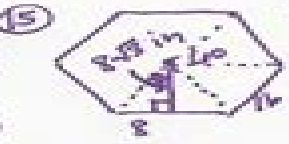
$$m\angle 5: 45^\circ$$

$$m\angle 6: 45^\circ$$



$$A = L \cdot W$$

$$(6\sqrt{2})(6\sqrt{2}) = 36 \cdot 2 = \boxed{72 \text{ cm}^2}$$



$$P: 16 \cdot 6 = 96$$

$$a: 8\sqrt{3}$$

$$A = \frac{1}{2} P a$$

$$\frac{1}{2}(96)(8\sqrt{3})$$

$$\boxed{384\sqrt{3} \text{ in}^2}$$



$$P: 6\sqrt{3} \cdot 6 = 36\sqrt{3}$$

$$a: 9$$

$$A = \frac{1}{2} P a$$

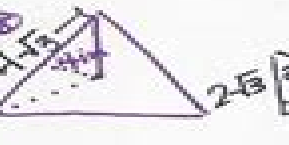
$$\frac{1}{2}(36\sqrt{3})(9)$$

$$\boxed{162\sqrt{3} \text{ m}^2}$$



$$A = \frac{S^2\sqrt{3}}{4} = \frac{(10\sqrt{3})^2\sqrt{3}}{4} = \frac{300\sqrt{3}}{4}$$

$$\boxed{75\sqrt{3} \text{ m}^2}$$



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

$$\boxed{12\sqrt{3} \text{ in}^2}$$

Geometry Star Test Answers

Arturo Cuomo

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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