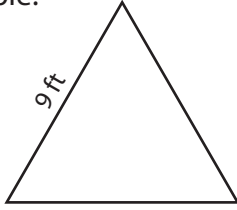


## Area of an Equilateral Triangle

Example:



$$\text{Area of an equilateral triangle} = \frac{\sqrt{3}}{4} a^2$$

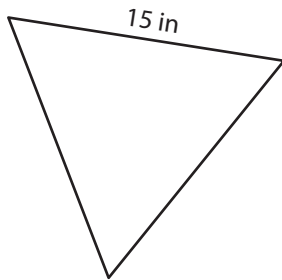
$$a = 9 \text{ ft}$$

$$\text{Area} = \frac{\sqrt{3}}{4} \times 9 \times 9$$

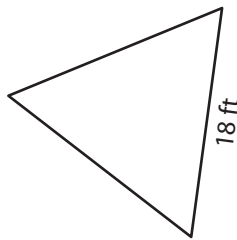
$$= \mathbf{35.07 \text{ ft}^2}$$

Find the area of each equilateral triangle. Round your answer to two decimal places.

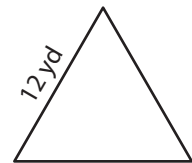
1)

Area = 

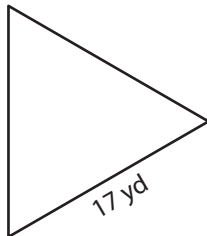
2)

Area = 

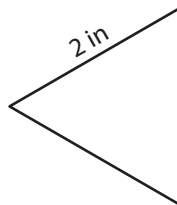
3)

Area = 

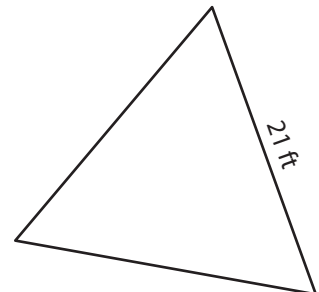
4)

Area = 

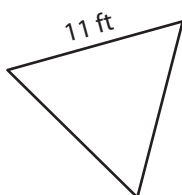
5)

Area = 

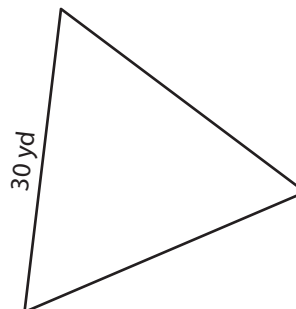
6)

Area = 

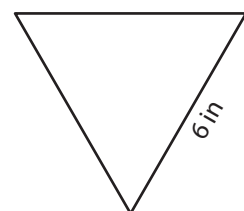
7)

Area = 

8)

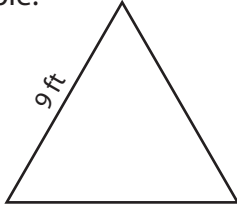
Area = 

9)

Area =

**Area of an Equilateral Triangle**

Example:



$$\text{Area of an equilateral triangle} = \frac{\sqrt{3}}{4} a^2$$

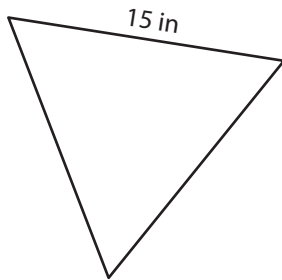
$$a = 9 \text{ ft}$$

$$\text{Area} = \frac{\sqrt{3}}{4} \times 9 \times 9$$

$$= \mathbf{35.07 \text{ ft}^2}$$

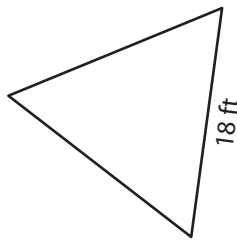
Find the area of each equilateral triangle. Round your answer to two decimal places.

1)



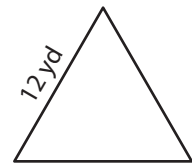
$$\text{Area} = \mathbf{97.43 \text{ in}^2}$$

2)



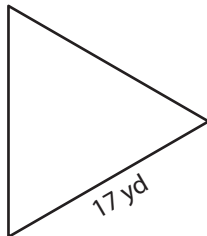
$$\text{Area} = \mathbf{140.3 \text{ ft}^2}$$

3)



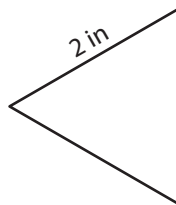
$$\text{Area} = \mathbf{62.35 \text{ yd}^2}$$

4)



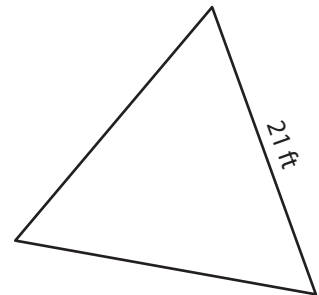
$$\text{Area} = \mathbf{125.14 \text{ yd}^2}$$

5)



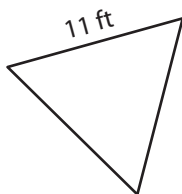
$$\text{Area} = \mathbf{1.73 \text{ in}^2}$$

6)



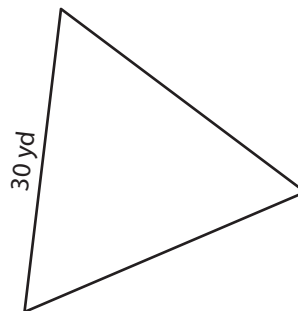
$$\text{Area} = \mathbf{190.96 \text{ ft}^2}$$

7)



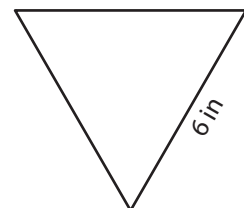
$$\text{Area} = \mathbf{52.39 \text{ ft}^2}$$

8)



$$\text{Area} = \mathbf{389.71 \text{ yd}^2}$$

9)



$$\text{Area} = \mathbf{15.59 \text{ in}^2}$$