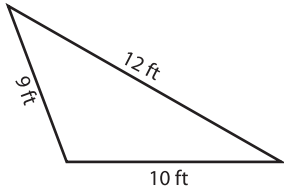


Name : \_\_\_\_\_

## Area of a Scalene Triangle

T1S1

Example:



Area = ?

$$\text{Area of scalene triangle} = \sqrt{s(s-a)(s-b)(s-c)}$$

$s$  = half of the perimeter

$$s = \frac{a+b+c}{2}$$

$$s = \frac{10 \text{ ft} + 12 \text{ ft} + 9 \text{ ft}}{2}$$

$$s = \frac{31 \text{ ft}}{2}$$

$$s = 15.5 \text{ ft}$$

$$\text{Area of scalene triangle} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$= \sqrt{15.5(15.5-10)(15.5-12)(15.5-9)}$$

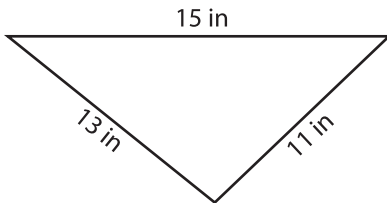
$$= \sqrt{15.5(5.5)(3.5)(6.5)}$$

$$= \sqrt{1939.4375}$$

$$= 44.04 \text{ ft}^2$$

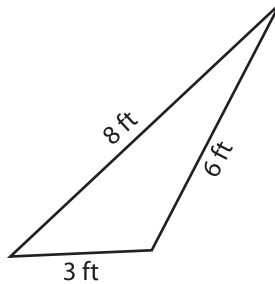
Find the area of each scalene triangle. Round your answer to two decimal places.

1)



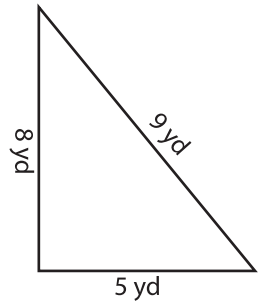
Area = \_\_\_\_\_

2)



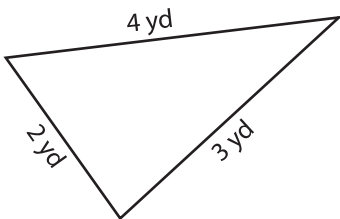
Area = \_\_\_\_\_

3)



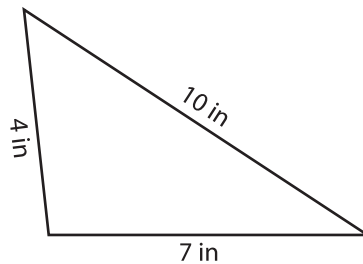
Area = \_\_\_\_\_

4)



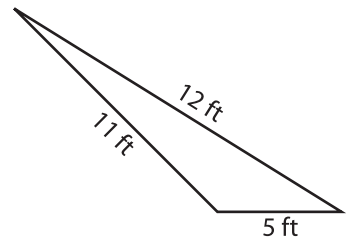
Area = \_\_\_\_\_

5)



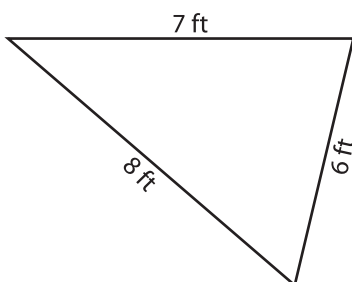
Area = \_\_\_\_\_

6)



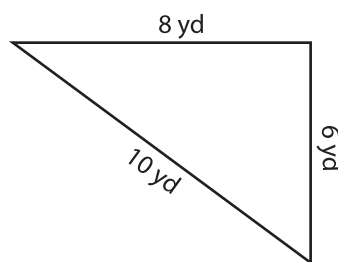
Area = \_\_\_\_\_

7)



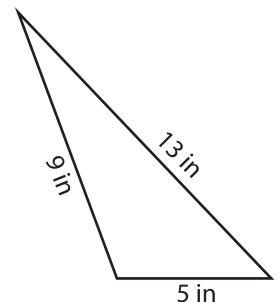
Area = \_\_\_\_\_

8)



Area = \_\_\_\_\_

9)



Area = \_\_\_\_\_