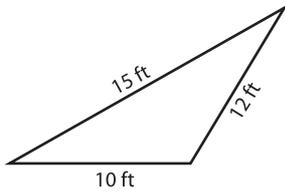


Name : _____

Area of a Scalene Triangle

T1S4

Example:



Area = ?

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

s = half of the perimeter

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

$$s = \frac{10 \text{ ft} + 15 \text{ ft} + 12 \text{ ft}}{2}$$

$$s = \frac{37 \text{ ft}}{2}$$

$$s = 18.5 \text{ ft}$$

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

$$= \sqrt{18.5(18.5-10)(18.5-15)(18.5-12)}$$

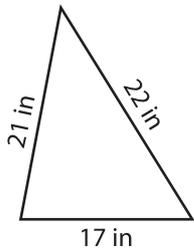
$$= \sqrt{18.5(8.5)(3.5)(6.5)}$$

$$= \sqrt{3577.4375}$$

$$= 59.81 \text{ ft}^2$$

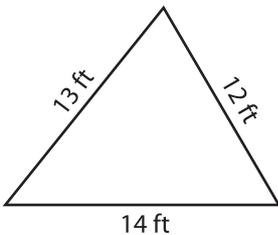
Find the area of each scalene triangle. Round your answer to two decimal places.

1)



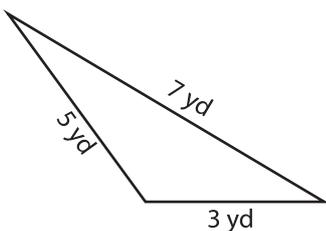
Area = _____

4)



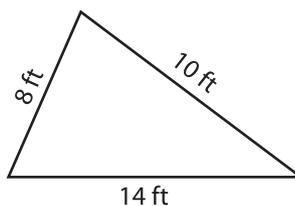
Area = _____

7)



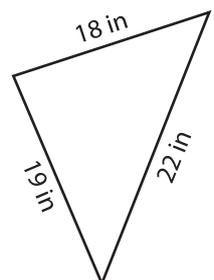
Area = _____

8)



Area = _____

9)



Area = _____

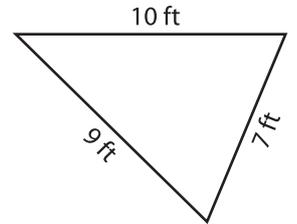
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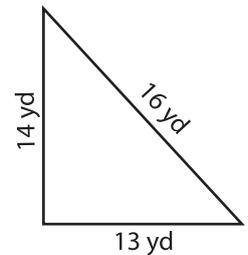
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Area = _____



Area = _____