

Name : _____

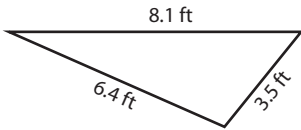
Area of a Scalene Triangle

T1S2

Example:

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

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



Area = ?

$s =$ half of the perimeter

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

$$s = \frac{8.1 \text{ ft} + 6.4 \text{ ft} + 3.5 \text{ ft}}{2}$$

$$s = \frac{18 \text{ ft}}{2}$$

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

$$= \sqrt{9(9-8.1)(9-6.4)(9-3.5)}$$

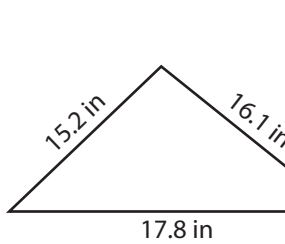
$$= \sqrt{9(0.9)(2.6)(5.5)}$$

$$= \sqrt{115.83}$$

$$= 10.76 \text{ ft}^2$$

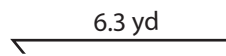
Find the area of each scalene triangle. Round your answer to two decimal places.

1)



Area = _____

2)



PREVIEW

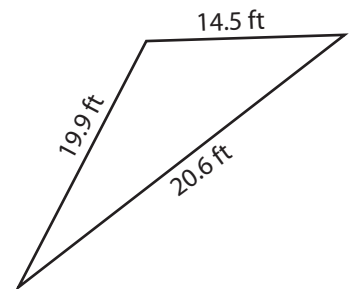
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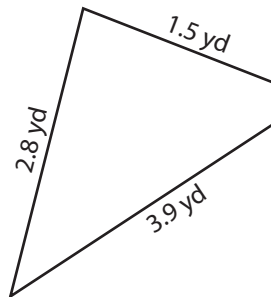
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3)



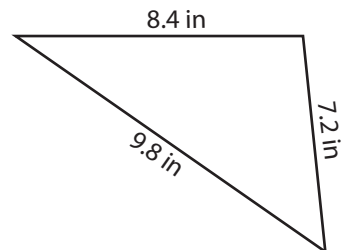
Area = _____

4)



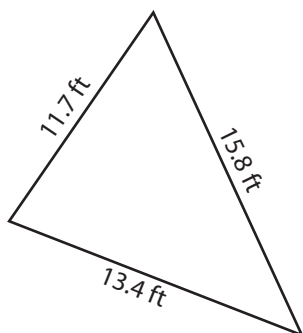
Area = _____

5)



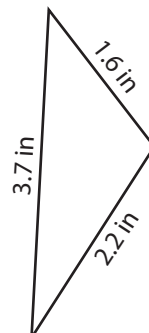
Area = _____

7)



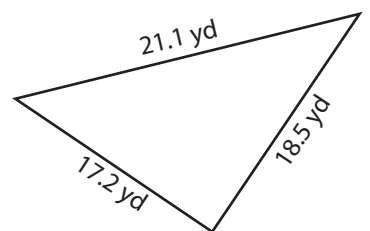
Area = _____

8)



Area = _____

9)



Area = _____

Area of a Scalene Triangle

Example:

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

s = half of the perimeter

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

$$s = \frac{8.1 \text{ ft} + 6.4 \text{ ft} + 3.5 \text{ ft}}{2}$$

$$s = \frac{18 \text{ ft}}{2}$$

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

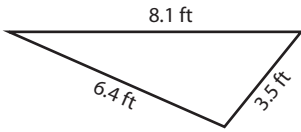
$$\text{Area of scalene triangle} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$= \sqrt{9(9-8.1)(9-6.4)(9-3.5)}$$

$$= \sqrt{9(0.9)(2.6)(5.5)}$$

$$= \sqrt{115.83}$$

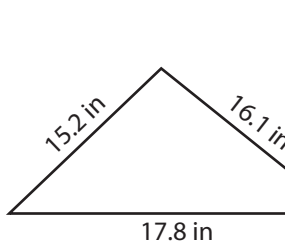
$$= 10.76 \text{ ft}^2$$



Area = ?

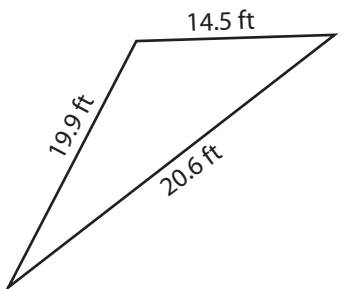
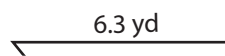
Find the area of each scalene triangle. Round your answer to two decimal places.

1)



Area = 114.42 in²

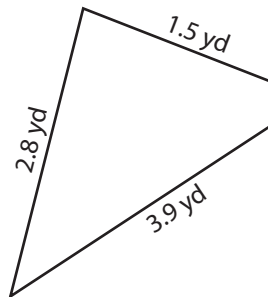
2)



Area = 136.92 ft²

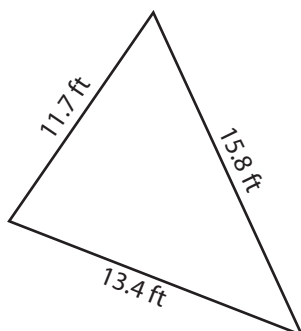
3)

4)



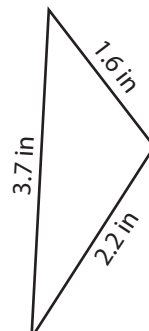
Area = 1.66 yd²

7)



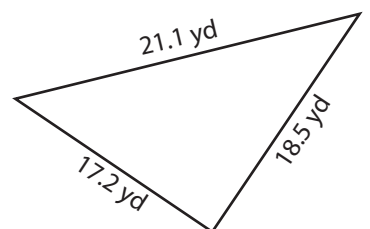
Area = 76.59 ft²

8)



Area = 0.79 in²

9)



Area = 151.62 yd²

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