

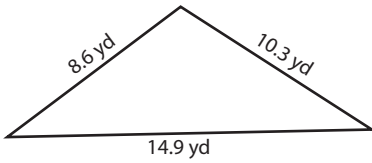
Name : _____

Area of a Scalene Triangle

T1S1

Example:

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



Area = ?

$s =$ half of the perimeter

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

$$s = \frac{14.9 \text{ yd} + 8.6 \text{ yd} + 10.3 \text{ yd}}{2}$$

$$s = \frac{33.8 \text{ yd}}{2}$$

$$s = 16.9 \text{ yd}$$

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

$$= \sqrt{16.9(16.9 - 14.9)(16.9 - 8.6)(16.9 - 10.3)}$$

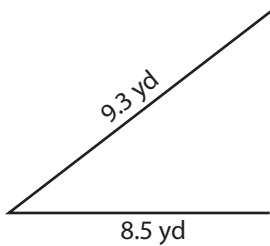
$$= \sqrt{16.9(2)(8.3)(6.6)}$$

$$= \sqrt{1,851.564}$$

$$= 43.03 \text{ yd}^2$$

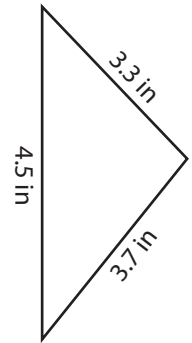
Find the area of each scalene triangle. Round your answer to two decimal places.

1)



Area = _____

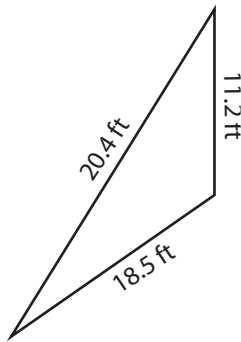
2)



Area = _____

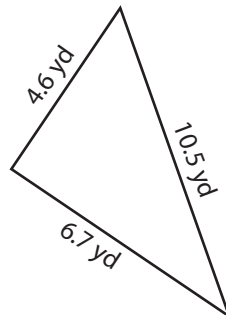
3)

4)



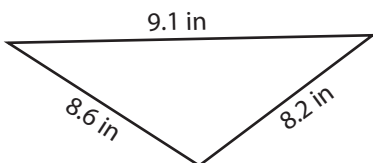
Area = _____

8)



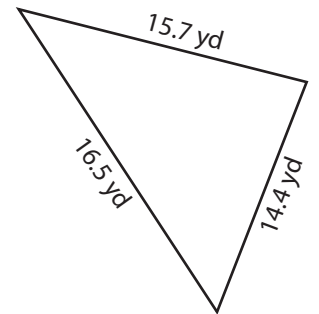
Area = _____

7)



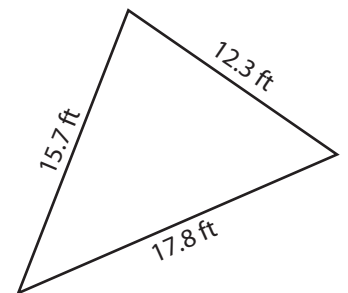
Area = _____

6)



Area = _____

9)



Area = _____

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Name : _____

Answer key

Area of a Scalene Triangle

T1S1

Example:

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

s = half of the perimeter

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

$s = \frac{14.9 \text{ yd} + 8.6 \text{ yd} + 10.3 \text{ yd}}{2}$

$s = \frac{33.8 \text{ yd}}{2}$

s = **16.9 yd**

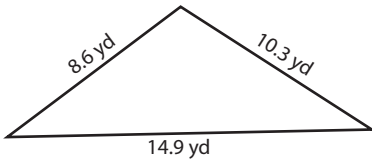
Area of scalene triangle = $\sqrt{s(s-a)(s-b)(s-c)}$

= $\sqrt{16.9(16.9 - 14.9)(16.9 - 8.6)(16.9 - 10.3)}$

= $\sqrt{16.9(2)(8.3)(6.6)}$

= $\sqrt{1,851.564}$

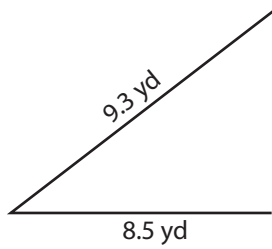
= **43.03 yd²**



Area = ?

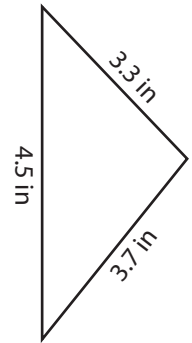
Find the area of each scalene triangle. Round your answer to two decimal places.

1)



Area = **28.79 yd²**

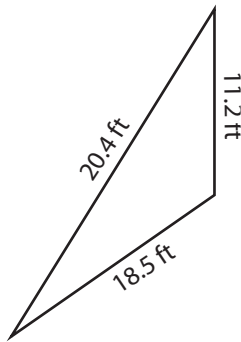
2)



Area = **6.01 in²**

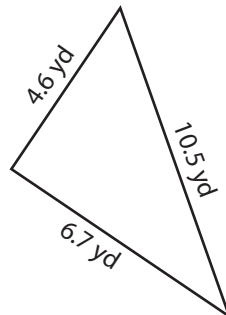
3)

4)



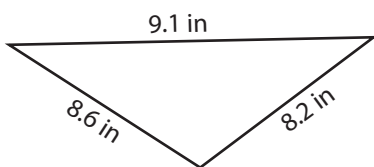
Area = **102.8 ft²**

8)



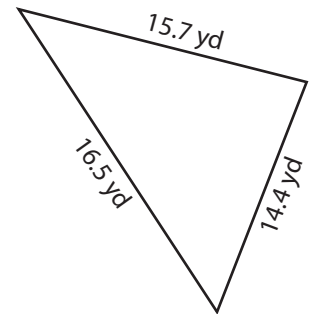
Area = **10.74 yd²**

7)



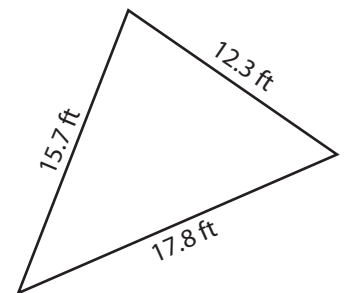
Area = **32.1 in²**

6)



Area = **103.52 yd²**

9)



Area = **94.41 ft²**

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