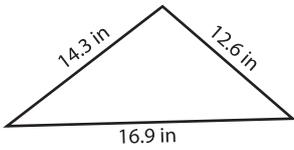


Name : _____

Area of a Scalene Triangle

T1S3

Example:



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

s = half of the perimeter

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

$$s = \frac{14.3 \text{ in} + 12.6 \text{ in} + 16.9 \text{ in}}{2}$$

$$s = \frac{43.8 \text{ in}}{2}$$

$$s = 21.9 \text{ in}$$

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

$$= \sqrt{21.9(21.9 - 14.3)(21.9 - 12.6)(21.9 - 16.9)}$$

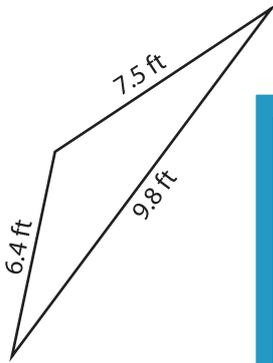
$$= \sqrt{21.9(7.6)(9.3)(5)}$$

$$= \sqrt{7,739.46}$$

$$= 87.97 \text{ in}^2$$

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

1)

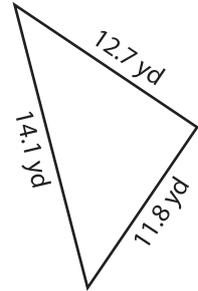


Area = _____

2)

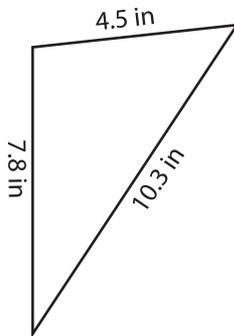


3)



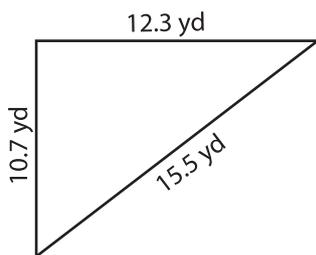
Area = _____

4)



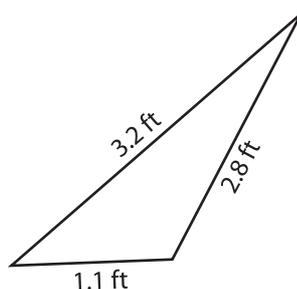
Area = _____

7)



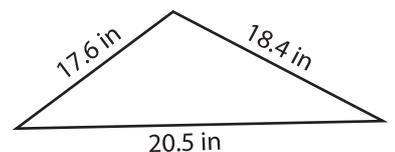
Area = _____

8)



Area = _____

9)



Area = _____

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