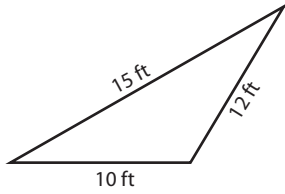


Name : _____

T1S4

Area of a Scalene Triangle

Example:



Area = ?

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

s = half of the perimeter

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

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

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

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

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

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

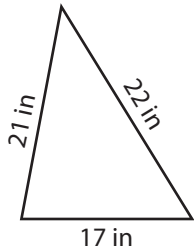
$$= \sqrt{18.5(8.5)(3.5)(6.5)}$$

$$= \sqrt{3577.4375}$$

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

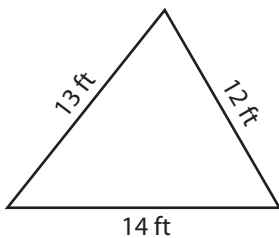
Find the area of each scalene triangle. Round your answer to two decimal places.

1)



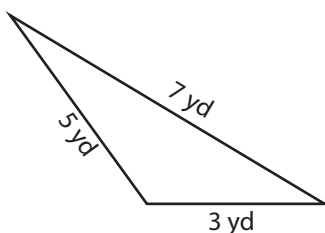
Area = _____

4)



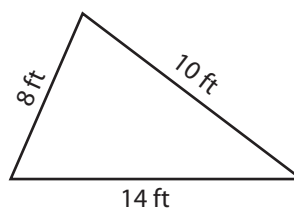
Area = _____

7)



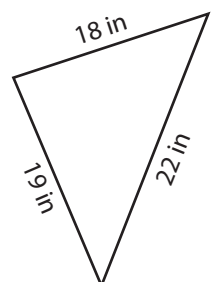
Area = _____

8)



Area = _____

9)



Area = _____

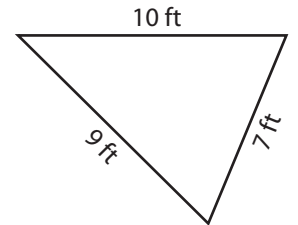
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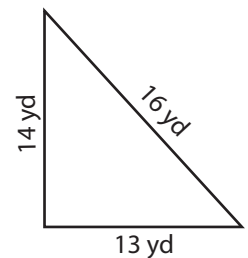
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Area = _____



Area = _____

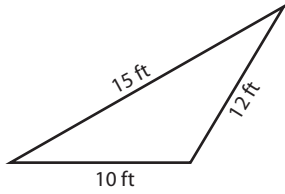
Name : _____

Answer key

Area of a Scalene Triangle

T1S4

Example:



Area = ?

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

s = half of the perimeter

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

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

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

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

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

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

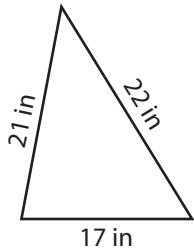
$$= \sqrt{18.5(8.5)(3.5)(6.5)}$$

$$= \sqrt{3577.4375}$$

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

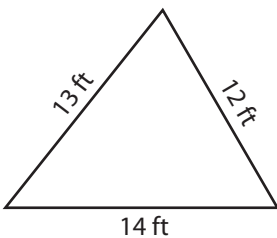
Find the area of each scalene triangle. Round your answer to two decimal places.

1)



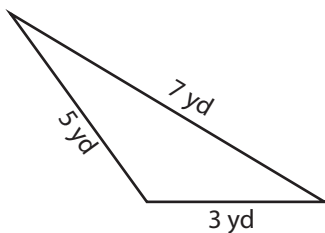
Area = 167.57 in²

4)



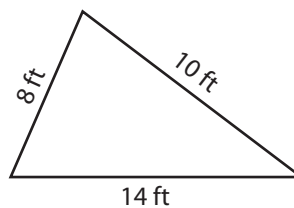
Area = 72.31 ft²

7)



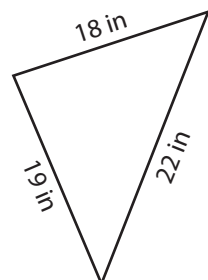
Area = 6.5 yd²

8)



Area = 39.19 ft²

9)



Area = 163.45 in²

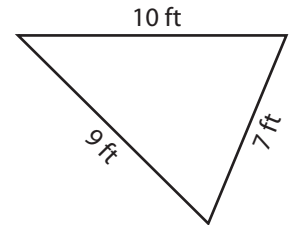
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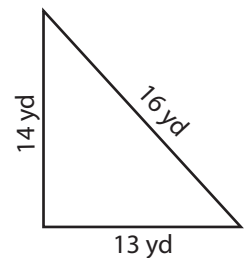
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Area = 30.59 ft²



Area = 86.82 yd²