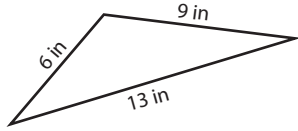


Name : \_\_\_\_\_

## Area of a Scalene Triangle

T1S2

Example:



Area = ?

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

$s$  = half of the perimeter

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

$$s = \frac{6 \text{ in} + 9 \text{ in} + 13 \text{ in}}{2}$$

$$s = \frac{28 \text{ in}}{2}$$

$$s = 14 \text{ in}$$

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

$$= \sqrt{14(14-6)(14-9)(14-13)}$$

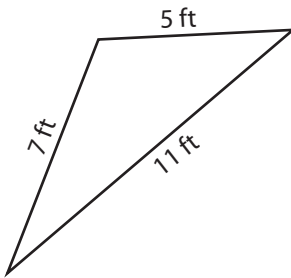
$$= \sqrt{14(8)(5)(1)}$$

$$= \sqrt{560}$$

$$= 23.66 \text{ in}^2$$

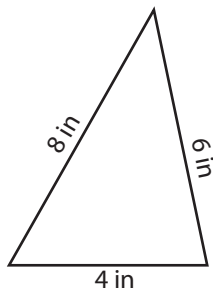
Find the area of each scalene triangle. Round your answer to two decimal places.

1)



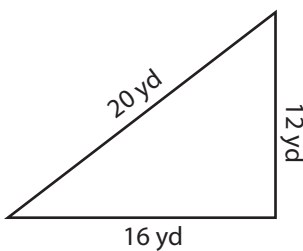
Area = \_\_\_\_\_

4)



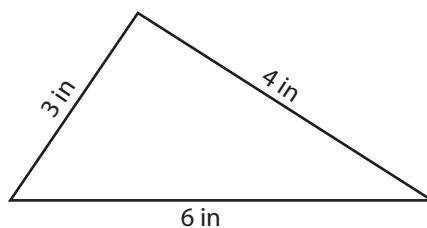
Area = \_\_\_\_\_

7)



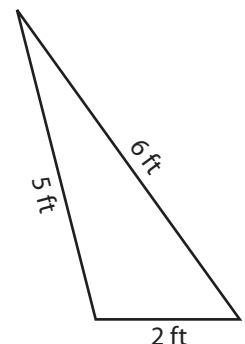
Area = \_\_\_\_\_

8)



Area = \_\_\_\_\_

9)



Area = \_\_\_\_\_

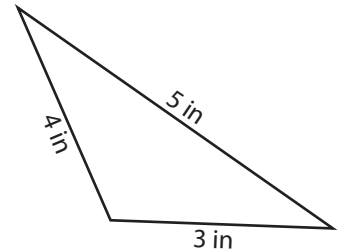
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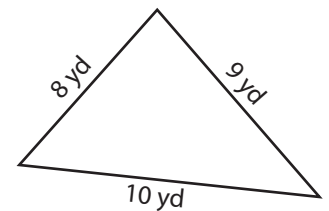
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Area = \_\_\_\_\_



Area = \_\_\_\_\_

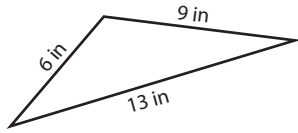
Name : \_\_\_\_\_

## Answer key

### Area of a Scalene Triangle

T1S2

Example:



Area = ?

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

$s$  = half of the perimeter

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

$$s = \frac{6 \text{ in} + 9 \text{ in} + 13 \text{ in}}{2}$$

$$s = \frac{28 \text{ in}}{2}$$

$$s = 14 \text{ in}$$

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

$$= \sqrt{14(14-6)(14-9)(14-13)}$$

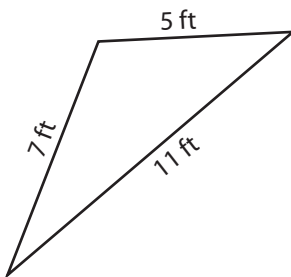
$$= \sqrt{14(8)(5)(1)}$$

$$= \sqrt{560}$$

$$= 23.66 \text{ in}^2$$

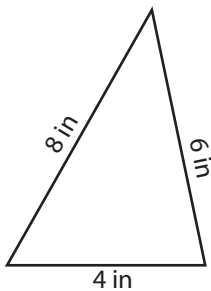
Find the area of each scalene triangle. Round your answer to two decimal places.

1)



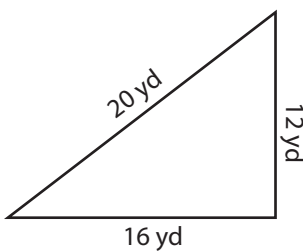
Area = 12.97 ft<sup>2</sup>

4)



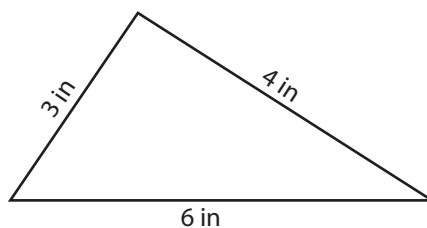
Area = 11.62 in<sup>2</sup>

7)



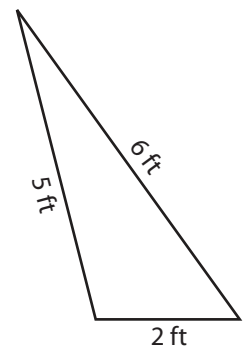
Area = 96 yd<sup>2</sup>

8)



Area = 5.33 in<sup>2</sup>

9)



Area = 4.68 ft<sup>2</sup>

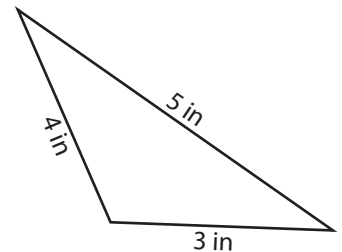
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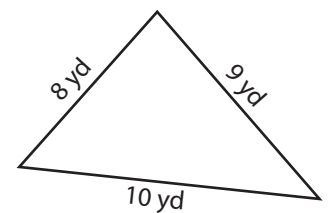
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Area = 6 in<sup>2</sup>



Area = 34.2 yd<sup>2</sup>