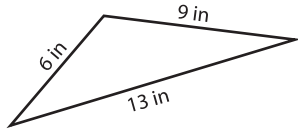Name : _____

Area of a Scalene Triangle

Example:

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

s = half of the perimeter

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

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

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

s = **14 in**

Area of scalene triangle = $\sqrt{s(s-a)(s-b)(s-c)}$
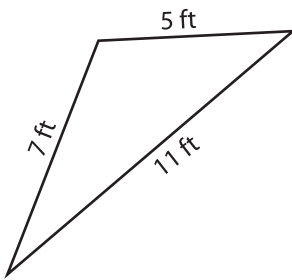
$= \sqrt{14\,(14-6)\,(14-9)\,(14-13)}$
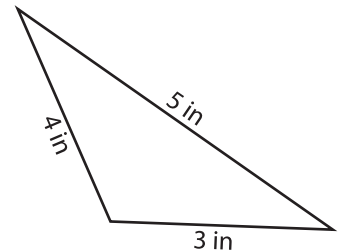
$= \sqrt{14\,(8)\,(5)\,(1)}$

$= \sqrt{560}$

$= $ **23.66 in²**

9 in

6 in

13 in

Area = ?

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

1)

5 ft

7 ft

11 ft
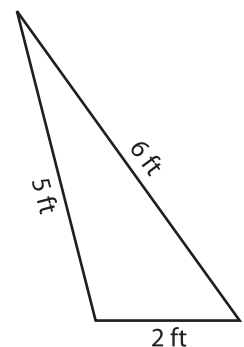
Area = _____

5 in

4 in

3 in
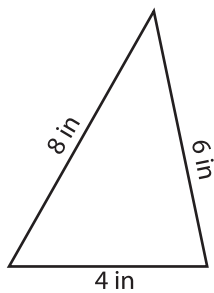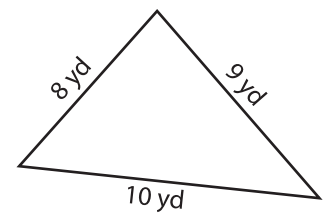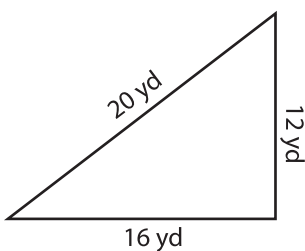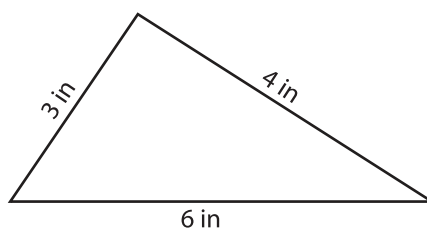
Area = _____

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4)

8 in

6 in

4 in

Area = _____

8 yd

9 yd

10 yd

Area = _____

7)

20 yd

12 yd

16 yd

Area = _____

8)

3 in

4 in

6 in

Area = _____

9)

5 ft

6 ft

2 ft

Area = _____