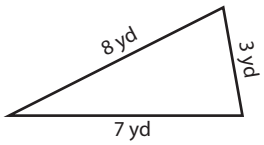
Name : _____

Area of a Scalene Triangle

T1S3

Example:



Area = ?

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

s = half of the perimeter

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

$s = \frac{7\text{ yd} + 8\text{ yd} + 3\text{ yd}}{2}$

$s = \frac{18\text{ yd}}{2}$

s = **9 yd**

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

$= \sqrt{9\,(9-7)\,(9-8)\,(9-3)}$

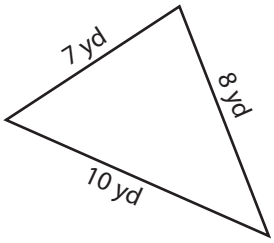
$= \sqrt{9\,(2)\,(1)\,(6)}$

$= \sqrt{108}$

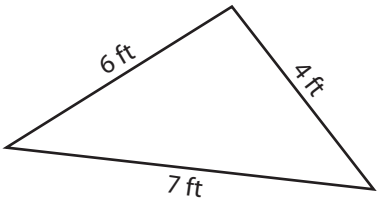
$=$ **10.39 yd²**

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

1)

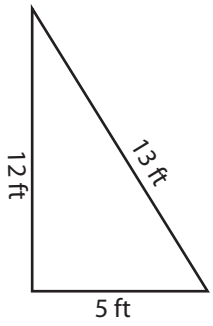


Area = _____

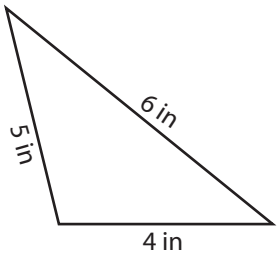


Area = _____

4)

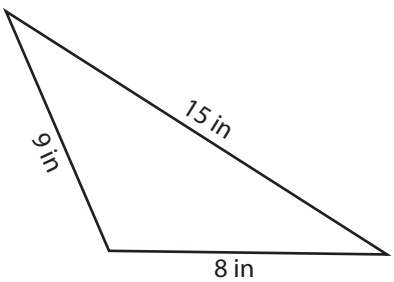


Area = _____



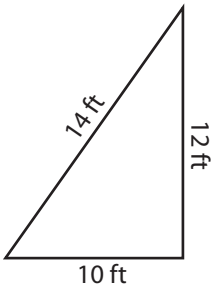
Area = _____

7)



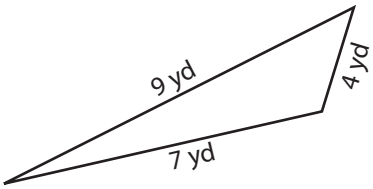
Area = _____

8)



Area = _____

9)



Area = _____

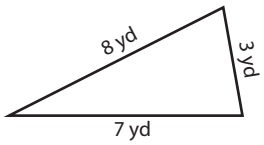
Name : _____

Answer key

Area of a Scalene Triangle

T1S3

Example:



Area = ?

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

s = half of the perimeter

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

$s = \frac{7\text{ yd} + 8\text{ yd} + 3\text{ yd}}{2}$

$s = \frac{18\text{ yd}}{2}$

s = **9 yd**

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

$= \sqrt{9\,(9-7)\,(9-8)\,(9-3)}$

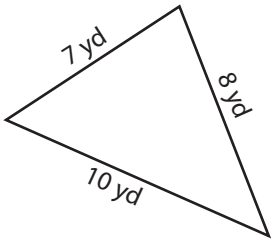
$= \sqrt{9\,(2)\,(1)\,(6)}$

$= \sqrt{108}$

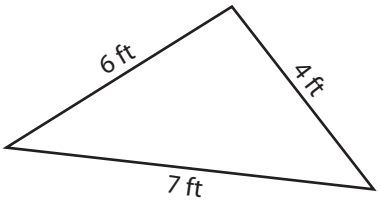
$=$ **10.39 yd²**

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

1)

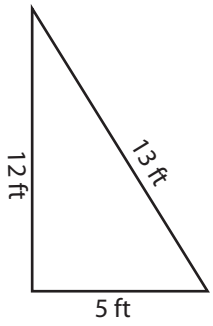


Area = **27.81 yd²**

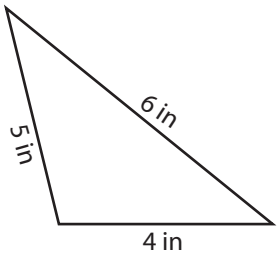


Area = **11.98 ft²**

4)

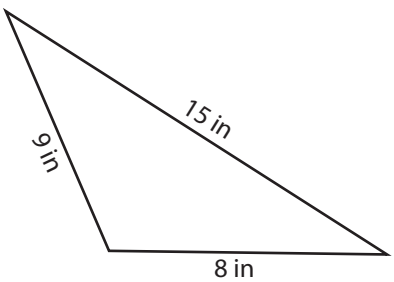


Area = **30 ft²**



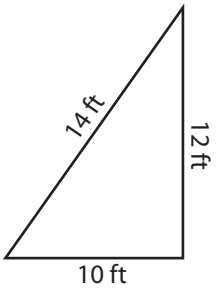
Area = **9.92 in²**

7)



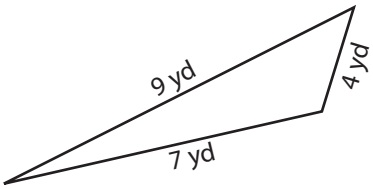
Area = **29.93 in²**

8)



Area = **58.79 ft²**

9)



Area = **13.42 yd²**