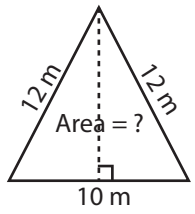
Name : _____ Score : _____

Isosceles Triangle - Finding Area

Example:

In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.

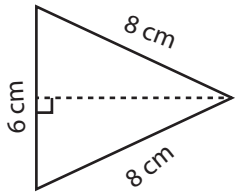


height = $\sqrt{12^2 - 5^2}$
= $\sqrt{144 - 25}$
= $\sqrt{119}$
= **10.91 m**

Area = $\frac{1}{2}$ x b x h
= $\frac{1}{2}$ x 10 x 10.91
= **54.55 m²**

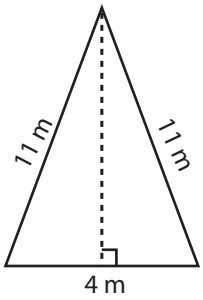
Find the area of each isosceles triangle. Round the answer to 2 decimal places.

1)



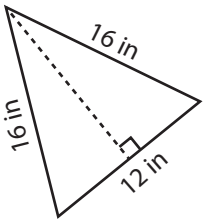
Area = _____

2)



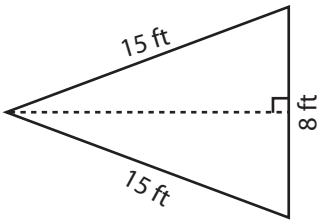
Area = _____

3)



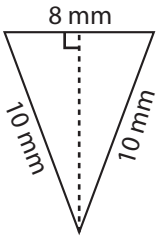
Area = _____

4)



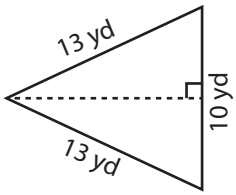
Area = _____

5)



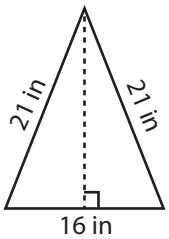
Area = _____

6)



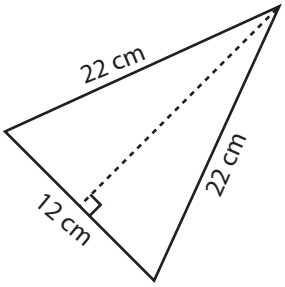
Area = _____

7)



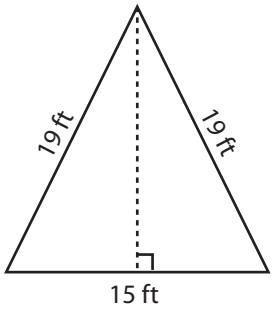
Area = _____

8)



Area = _____

9)

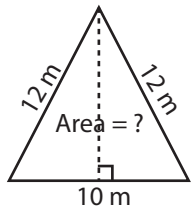


Area = _____

Name : _____ Score : _____

Answer key

Example:



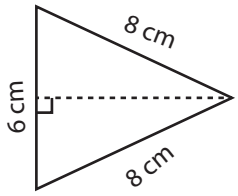
In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.

height = $\sqrt{12^2 - 5^2}$
= $\sqrt{144 - 25}$
= $\sqrt{119}$
= **10.91 m**

Area = $\frac{1}{2}$ x b x h
= $\frac{1}{2}$ x 10 x 10.91
= **54.55 m²**

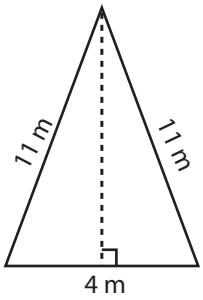
Find the area of each isosceles triangle. Round the answer to 2 decimal places.

1)



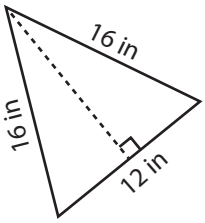
Area = **22.25 cm²**

2)



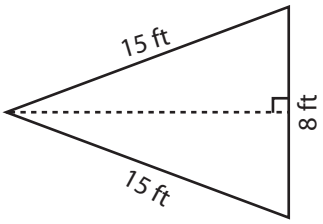
Area = **21.63 m²**

3)



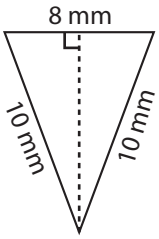
Area = **88.99 in²**

4)



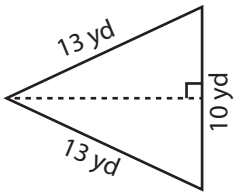
Area = **57.83 ft²**

5)



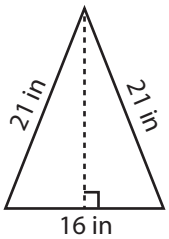
Area = **36.66 mm²**

6)



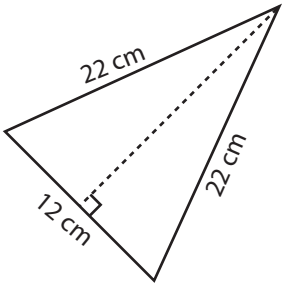
Area = **60 yd²**

7)



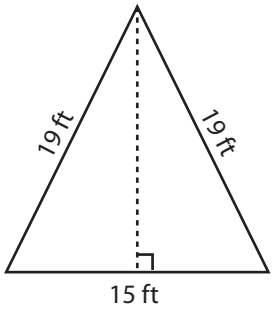
Area = **155.33 in²**

8)



Area = **127 cm²**

9)



Area = **130.93 ft²**