



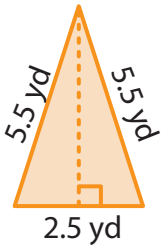
AREA OF ISOSCELES TRIANGLE

Name _____

Score _____

AT:33

Example : Find the area of the triangle and round it to two decimal places.



$$\text{Height}(h) = \sqrt{a^2 - \frac{b^2}{4}}$$

$$a = 5.5 \text{ yd}, b = 2.5 \text{ yd}$$

$$h = \sqrt{5.5^2 - \frac{2.5^2}{4}} = \sqrt{30.25 - \frac{6.25}{4}}$$

$$= \sqrt{30.25 - 1.56} = \sqrt{28.69} = 5.36 \text{ yd}$$

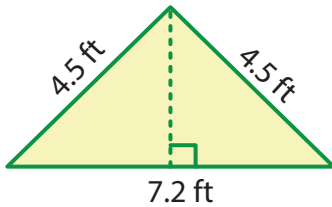
$$\text{Area} = \frac{1}{2} \times b \times h$$

$$= \frac{1}{2} \times 2.5 \times 5.36$$

$$= 6.7 \text{ ft}^2$$

Find the area of the triangle and round it to two decimal places.

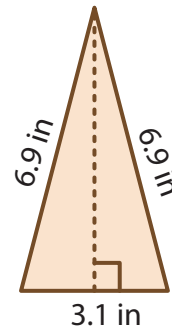
1)



Area =



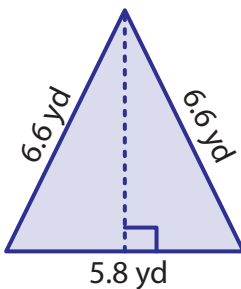
2)



Area =



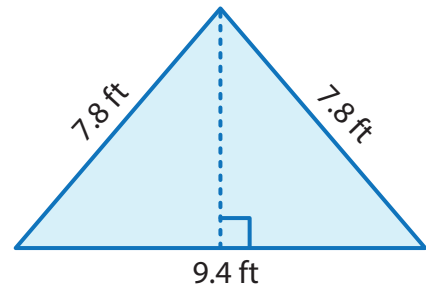
3)



Area =



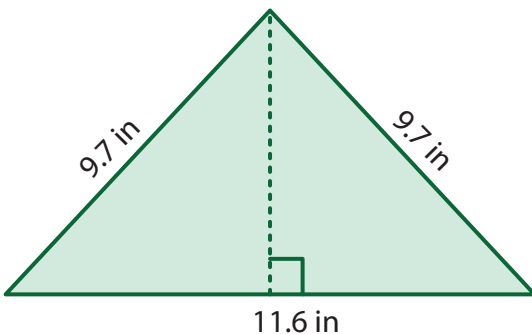
4)



Area =



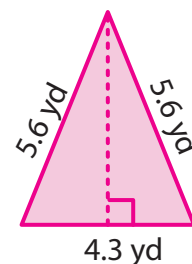
5)



Area =



6)



Area =





AREA OF ISOSCELES TRIANGLE

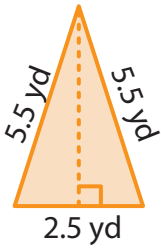
Name _____

Score _____

Answer key

AT:33

Example : Find the area of the triangle and round it to two decimal places.



$$\text{Height}(h) = \sqrt{a^2 - \frac{b^2}{4}}$$

$$a = 5.5 \text{ yd}, b = 2.5 \text{ yd}$$

$$h = \sqrt{5.5^2 - \frac{2.5^2}{4}} = \sqrt{30.25 - \frac{6.25}{4}}$$

$$= \sqrt{30.25 - 1.56} = \sqrt{28.69} = 5.36 \text{ yd}$$

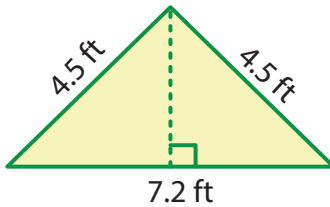
$$\text{Area} = \frac{1}{2} \times b \times h$$

$$= \frac{1}{2} \times 2.5 \times 5.36$$

$$= 6.7 \text{ ft}^2$$

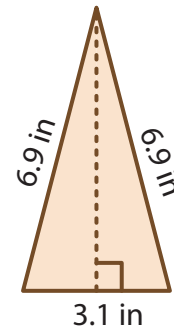
Find the area of the triangle and round it to two decimal places.

1)



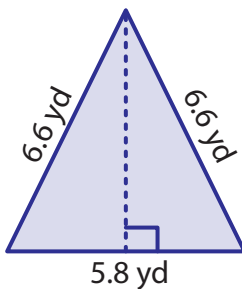
Area = **9.72 ft²**

2)



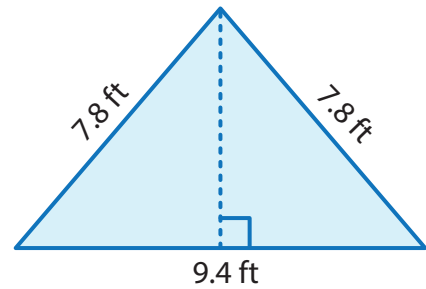
Area = **10.42 in²**

3)



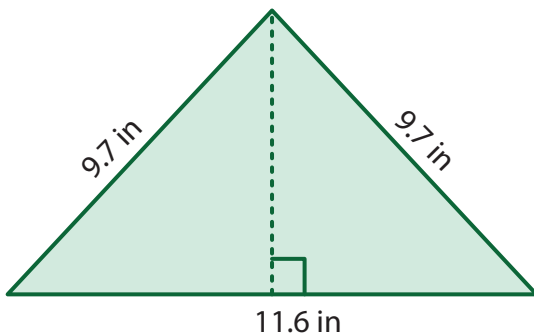
Area = **17.19 yd²**

4)



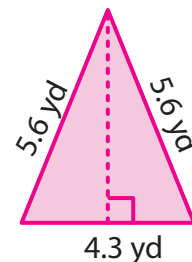
Area = **29.26 ft²**

5)



Area = **45.12 in²**

6)



Area = **11.12 yd²**