



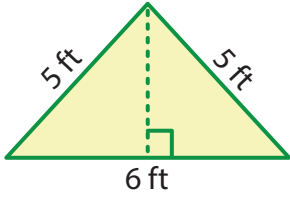
# AREA OF ISOSCELES TRIANGLE

Name \_\_\_\_\_

Score \_\_\_\_\_

AT:32

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



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

$$a = 5 \text{ ft}, b = 6 \text{ ft}$$

$$h = \sqrt{5^2 - \frac{6^2}{4}} = \sqrt{25 - \frac{36}{4}}$$

$$= \sqrt{25 - 9} = \sqrt{16} = 4 \text{ ft}$$

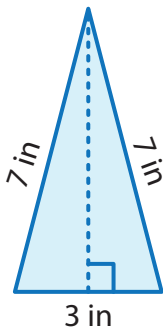
$$\text{Area} = \frac{1}{2} \times b \times h$$

$$= \frac{1}{2} \times 6 \times 4$$

$$= 12 \text{ ft}^2$$

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

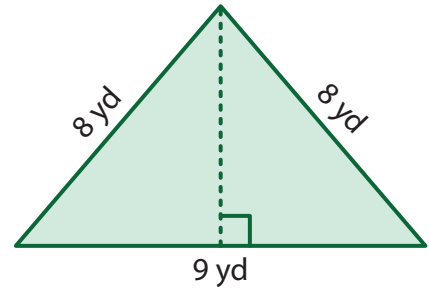
1)



Area =



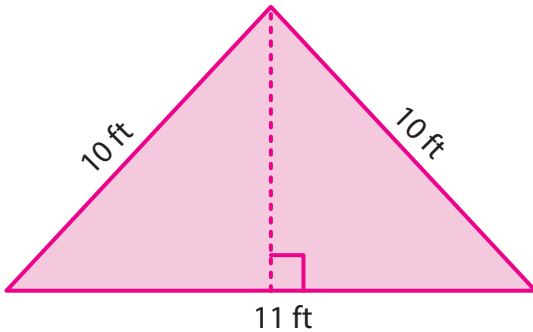
2)



Area =



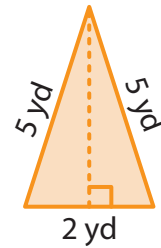
3)



Area =



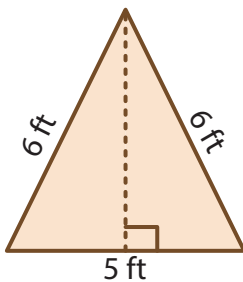
4)



Area =



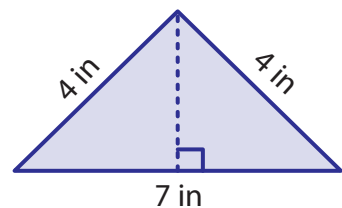
5)



Area =



6)



Area =





# AREA OF ISOSCELES TRIANGLE

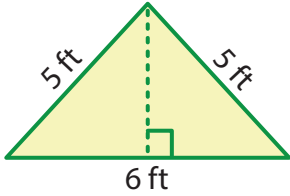
Name \_\_\_\_\_

Score \_\_\_\_\_

## Answer key

AT:32

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



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

$$a = 5 \text{ ft}, b = 6 \text{ ft}$$

$$h = \sqrt{5^2 - \frac{6^2}{4}} = \sqrt{25 - \frac{36}{4}}$$

$$= \sqrt{25 - 9} = \sqrt{16} = 4 \text{ ft}$$

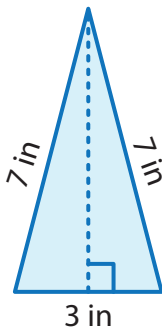
$$\text{Area} = \frac{1}{2} \times b \times h$$

$$= \frac{1}{2} \times 6 \times 4$$

$$= 12 \text{ ft}^2$$

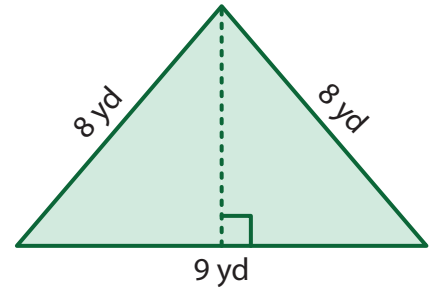
Find the area of the triangle and round it to two decimal places.

1)



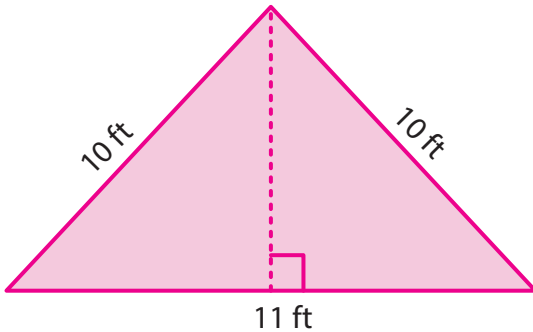
Area = **10.26 in<sup>2</sup>**

2)



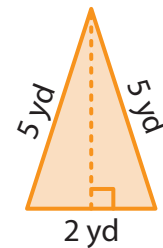
Area = **29.76 yd<sup>2</sup>**

3)



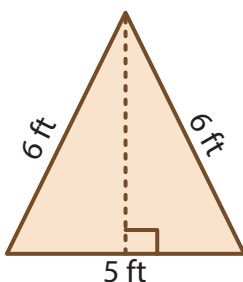
Area = **45.93 ft<sup>2</sup>**

4)



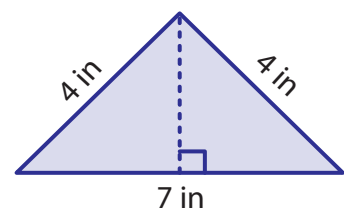
Area = **4.9 yd<sup>2</sup>**

5)



Area = **13.64 ft<sup>2</sup>**

6)



Area = **6.78 in<sup>2</sup>**