



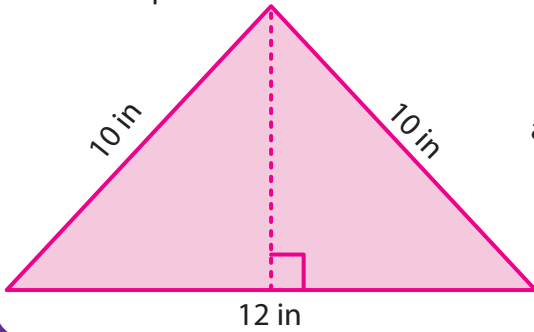
# AREA OF ISOSCELES TRIANGLE

Name \_\_\_\_\_

Score \_\_\_\_\_

AT:34

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



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

$$a = 10 \text{ in}, b = 12 \text{ in}$$

$$h = \sqrt{10^2 - \frac{12^2}{4}} = \sqrt{100 - \frac{144}{4}}$$

$$= \sqrt{100 - 36} = \sqrt{64} = 8 \text{ in}$$

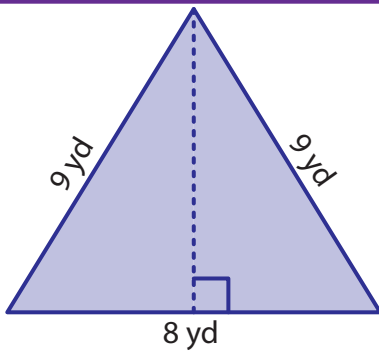
$$\text{Area} = \frac{1}{2} \times b \times h$$

$$= \frac{1}{2} \times 12 \times 8$$

$$= 48 \text{ in}^2$$

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

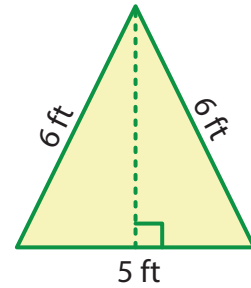
1)



Area =



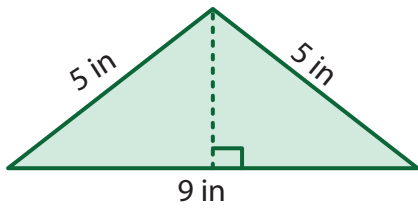
2)



Area =



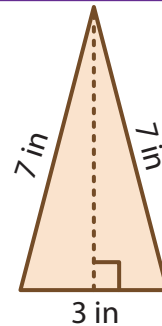
3)



Area =



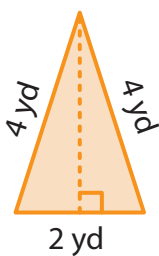
4)



Area =



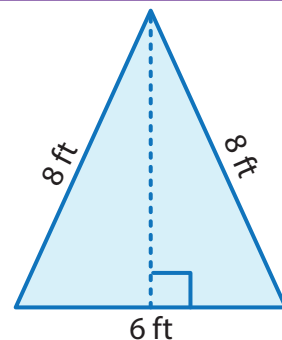
5)



Area =



6)



Area =





# AREA OF ISOSCELES TRIANGLE

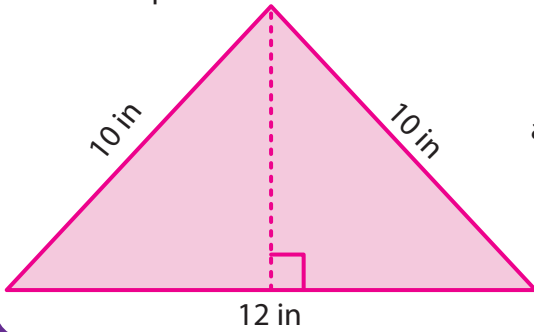
Name \_\_\_\_\_

Score \_\_\_\_\_

## Answer key

AT:34

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



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

$$a = 10 \text{ in}, b = 12 \text{ in}$$

$$h = \sqrt{10^2 - \frac{12^2}{4}} = \sqrt{100 - \frac{144}{4}}$$

$$= \sqrt{100 - 36} = \sqrt{64} = 8 \text{ in}$$

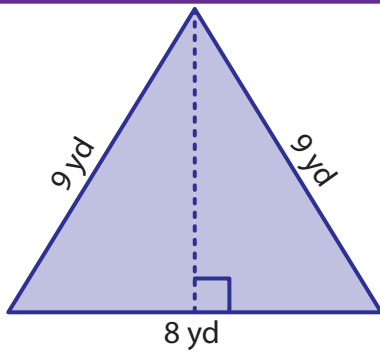
$$\text{Area} = \frac{1}{2} \times b \times h$$

$$= \frac{1}{2} \times 12 \times 8$$

$$= 48 \text{ in}^2$$

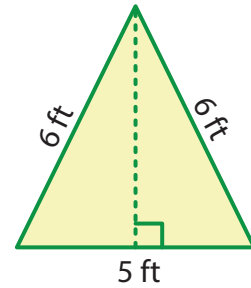
Find the area of the triangle and round it to two decimal places.

1)



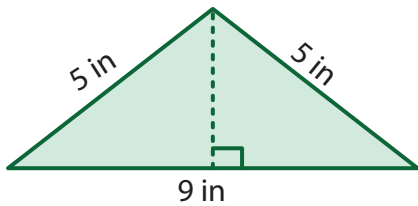
Area = **32.24 yd<sup>2</sup>**

2)



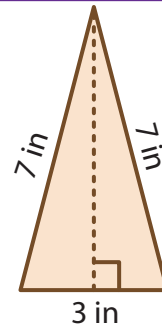
Area = **13.64 ft<sup>2</sup>**

3)



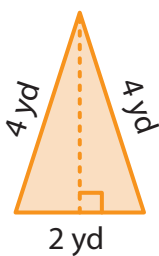
Area = **9.81 in<sup>2</sup>**

4)



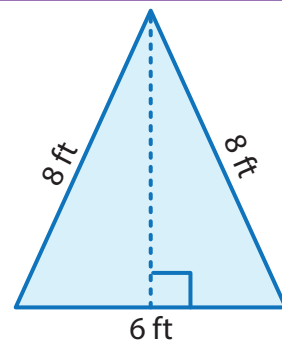
Area = **10.26 in<sup>2</sup>**

5)



Area = **3.87 yd<sup>2</sup>**

6)



Area = **22.25 ft<sup>2</sup>**