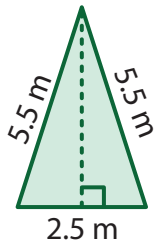
AREA OF ISOSCELES TRIANGLE

Name _____

Score _____

AT:37

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



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

$a = 5.5$ m, $b = 2.5$ m

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

$$= \sqrt{30.25 - 1.56} = \sqrt{28.69} = \mathbf{5.36\ m}$$

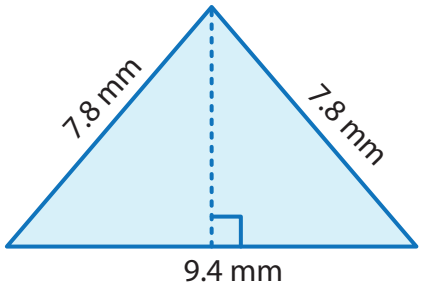
$$\text{Area} = \frac{1}{2} \times b \times h$$

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

$$= \mathbf{6.7\ m^2}$$

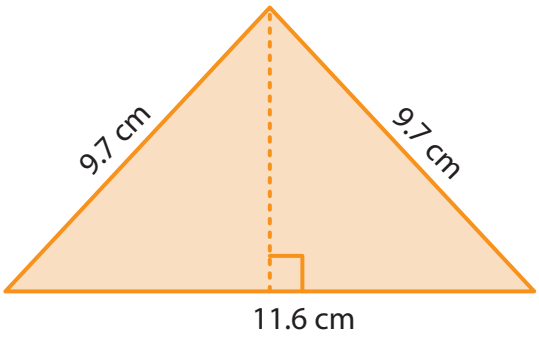
Find the area of the triangle and round it to two decimal places.

1)



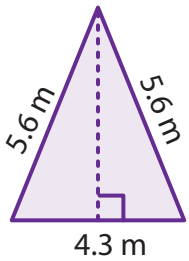
Area =

2)



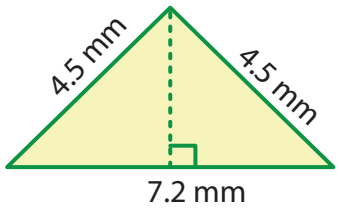
Area =

3)



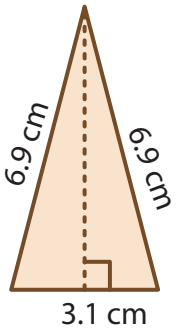
Area =

4)



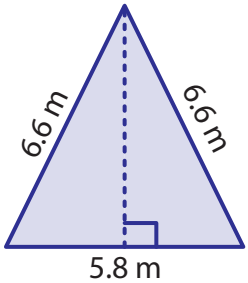
Area =

5)



Area =

6)



Area =

AREA OF ISOSCELES TRIANGLE

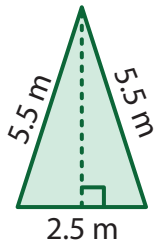
Name _____

Score _____

Answer key

AT:37

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



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

$a = 5.5$ m, $b = 2.5$ m

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

$$= \sqrt{30.25 - 1.56} = \sqrt{28.69} = \mathbf{5.36\ m}$$

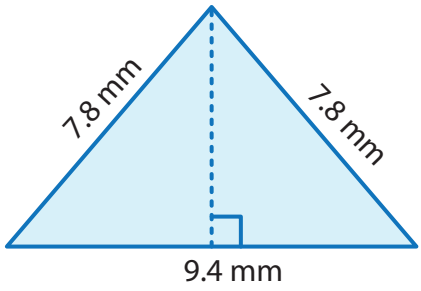
$$\text{Area} = \frac{1}{2} \times b \times h$$

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

$$= \mathbf{6.7\ m^2}$$

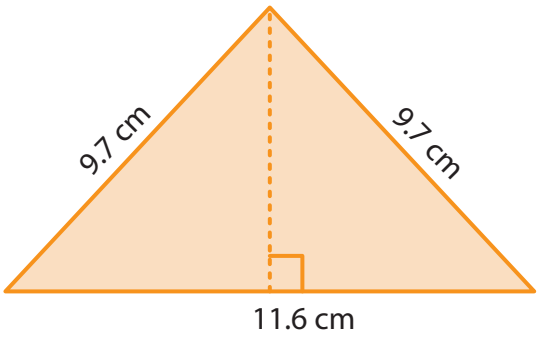
Find the area of the triangle and round it to two decimal places.

1)



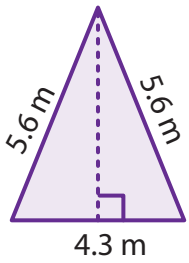
Area = **29.26 mm²**

2)



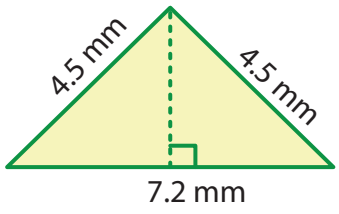
Area = **45.12 cm²**

3)



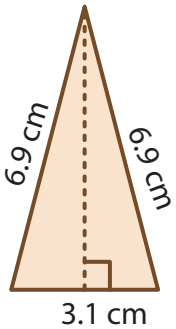
Area = **11.12 m²**

4)



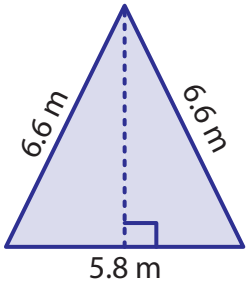
Area = **9.72 mm²**

5)



Area = **10.42 cm²**

6)



Area = **17.19 m²**