



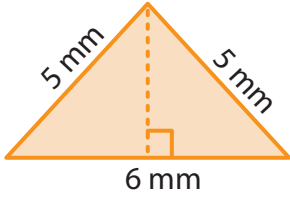
AREA OF ISOSCELES TRIANGLE

Name _____

Score _____

AT:35

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



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

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

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

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

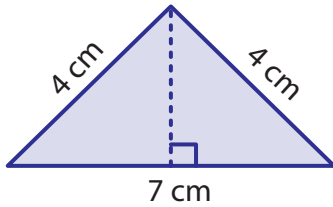
$$\text{Area} = \frac{1}{2} \times b \times h$$

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

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

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

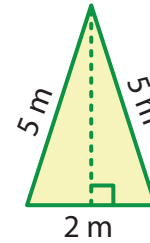
1)



Area =



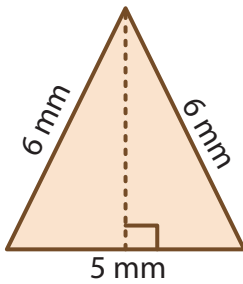
2)



Area =



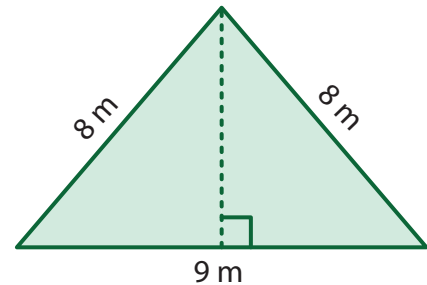
3)



Area =



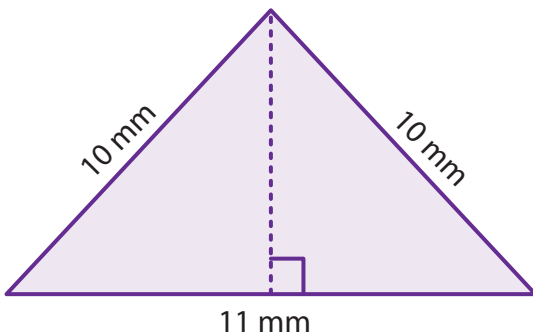
4)



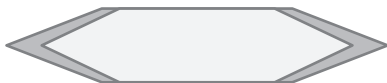
Area =



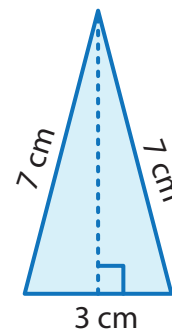
5)



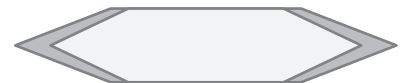
Area =



6)



Area =





AREA OF ISOSCELES TRIANGLE

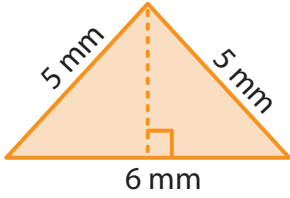
Name _____

Score _____

Answer key

AT:35

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

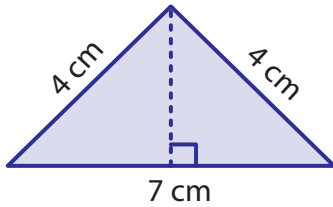


$$\begin{aligned} \text{Height}(h) &= \sqrt{a^2 - \frac{b^2}{4}} \\ a &= 5 \text{ mm}, b = 6 \text{ mm} \\ h &= \sqrt{5^2 - \frac{6^2}{4}} = \sqrt{25 - \frac{36}{4}} \\ &= \sqrt{25 - 9} = \sqrt{16} = 4 \text{ mm} \end{aligned}$$

$$\begin{aligned} \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 6 \times 4 \\ &= 12 \text{ mm}^2 \end{aligned}$$

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

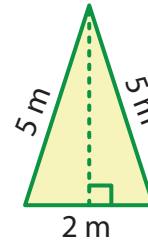
1)



Area =

6.78 cm²

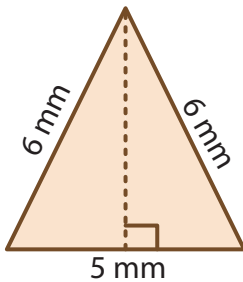
2)



Area =

4.9 m²

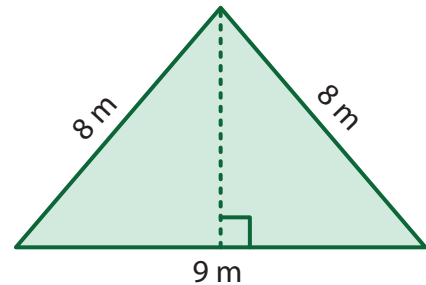
3)



Area =

13.64 mm²

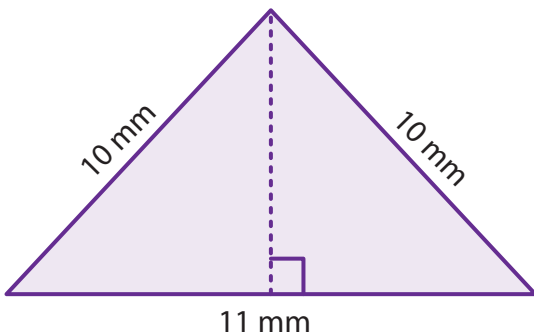
4)



Area =

29.76 m²

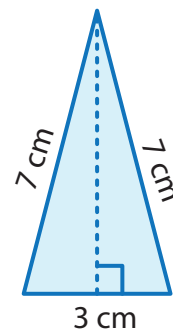
5)



Area =

45.93 mm²

6)



Area =

10.26 cm²