



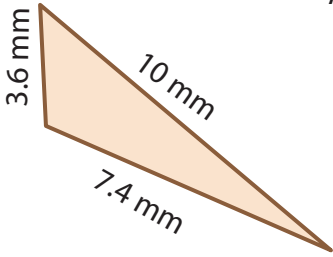
AREA OF SCALENE TRIANGLE

Name _____

Score _____

AT:42

Example: Find the area of scalene triangle. Round the answer to two decimal places.



$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$s = \frac{a+b+c}{2}$$

$$a = 3.6 \text{ mm}, b = 7.4 \text{ mm}, c = 10 \text{ mm}$$

$$s = \frac{3.6 + 7.4 + 10}{2}$$

$$s = \frac{21}{2} = 10.5 \text{ mm}$$

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$= \sqrt{10.5(10.5 - 3.6)(10.5 - 7.4)(10.5 - 10)}$$

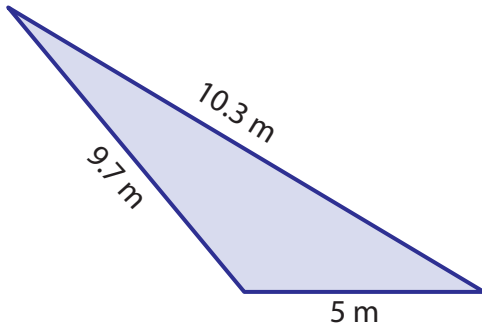
$$= \sqrt{10.5 \times 6.9 \times 3.1 \times 0.5}$$

$$= \sqrt{112.2975}$$

$$= 10.6 \text{ mm}^2$$

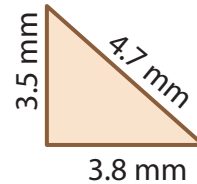
Find the area of scalene triangle and round it to two decimal places.

1)



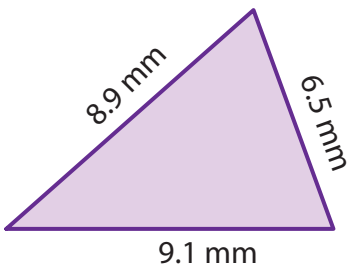
Area = _____

2)



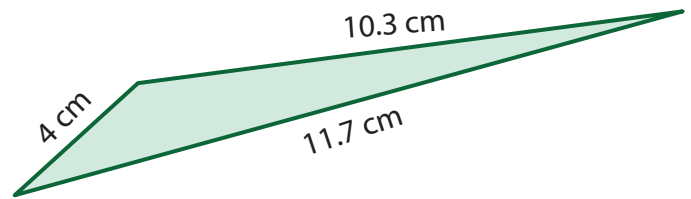
Area = _____

3)



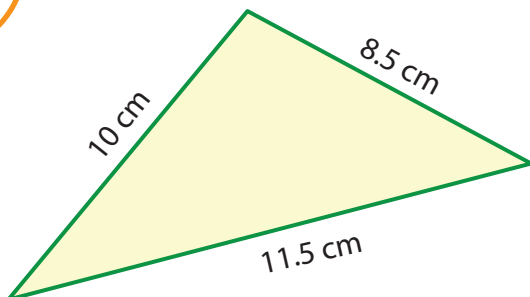
Area = _____

4)



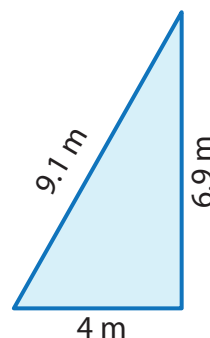
Area = _____

5)



Area = _____

6)



Area = _____



AREA OF SCALENE TRIANGLE

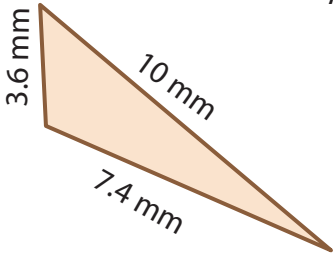
Name _____

Score _____

Answer key

AT:42

Example: Find the area of scalene triangle. Round the answer to two decimal places.



$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$s = \frac{a+b+c}{2}$$

$$a = 3.6 \text{ mm}, b = 7.4 \text{ mm}, c = 10 \text{ mm}$$

$$s = \frac{3.6 + 7.4 + 10}{2}$$

$$s = \frac{21}{2} = 10.5 \text{ mm}$$

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$= \sqrt{10.5(10.5 - 3.6)(10.5 - 7.4)(10.5 - 10)}$$

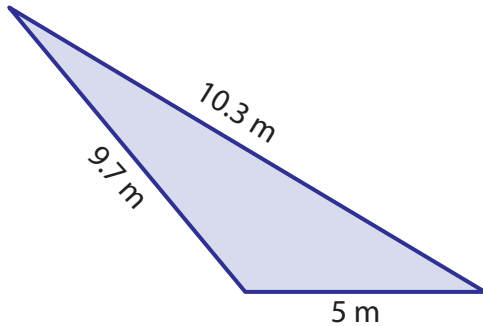
$$= \sqrt{10.5 \times 6.9 \times 3.1 \times 0.5}$$

$$= \sqrt{112.2975}$$

$$= 10.6 \text{ mm}^2$$

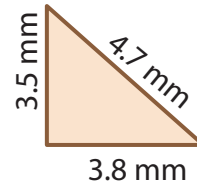
Find the area of scalene triangle and round it to two decimal places.

1)



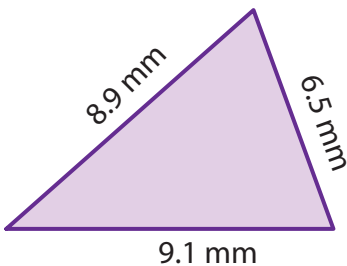
Area = 24.03 m²

2)



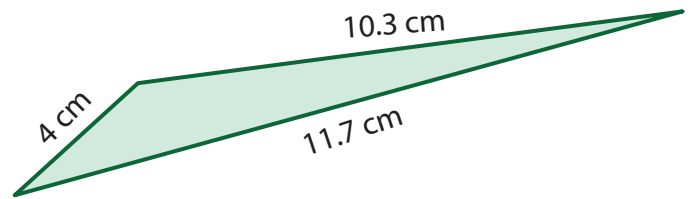
Area = 6.55 mm²

3)



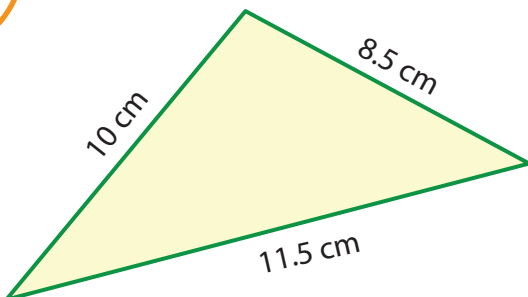
Area = 27.26 mm²

4)



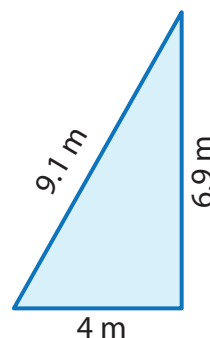
Area = 20.26 cm²

5)



Area = 41.31 cm²

6)



Area = 12.94 m²