



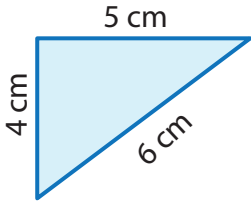
## AREA OF SCALENE TRIANGLE

Name \_\_\_\_\_

Score \_\_\_\_\_

AT:43

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



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

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

$$a = 4 \text{ cm}, b = 5 \text{ cm}, c = 6 \text{ cm}$$

$$s = \frac{4+5+6}{2}$$

$$s = \frac{15}{2} = 7.5 \text{ cm}$$

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

$$= \sqrt{7.5(7.5-4)(7.5-5)(7.5-6)}$$

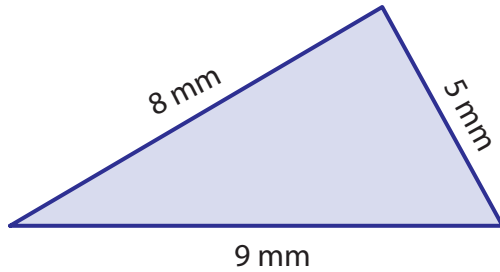
$$= \sqrt{7.5 \times 3.5 \times 2.5 \times 1.5}$$

$$= \sqrt{98.4375}$$

$$= 9.92 \text{ cm}^2$$

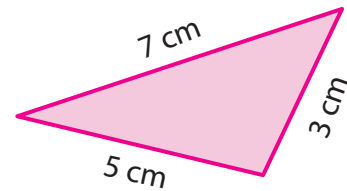
Find the area of scalene triangle and round it to two decimal places.

1)



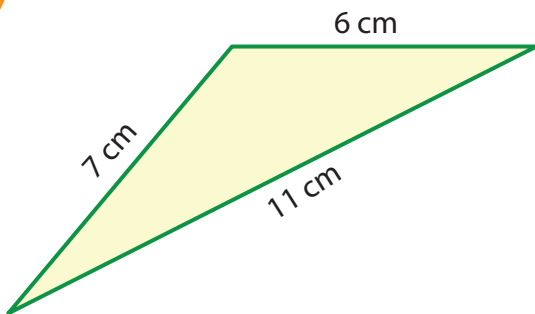
Area = \_\_\_\_\_

2)



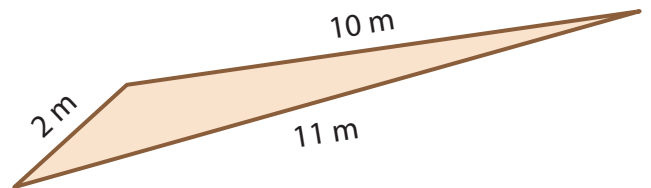
Area = \_\_\_\_\_

3)



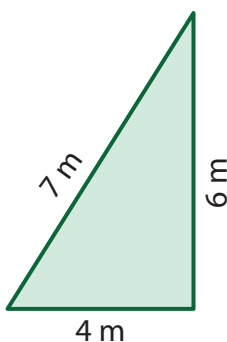
Area = \_\_\_\_\_

4)



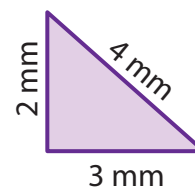
Area = \_\_\_\_\_

5)



Area = \_\_\_\_\_

6)



Area = \_\_\_\_\_



# AREA OF SCALENE TRIANGLE

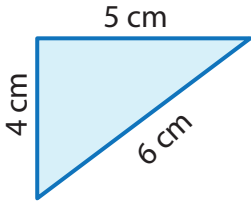
Name \_\_\_\_\_

Score \_\_\_\_\_

## Answer key

AT:43

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



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

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

$$a = 4 \text{ cm}, b = 5 \text{ cm}, c = 6 \text{ cm}$$

$$s = \frac{4+5+6}{2}$$

$$s = \frac{15}{2} = 7.5 \text{ cm}$$

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

$$= \sqrt{7.5(7.5-4)(7.5-5)(7.5-6)}$$

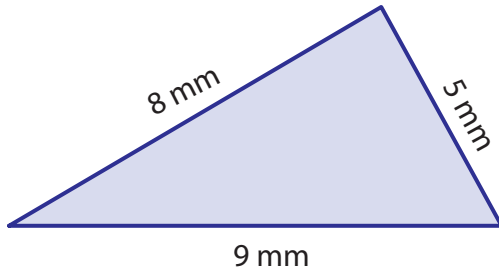
$$= \sqrt{7.5 \times 3.5 \times 2.5 \times 1.5}$$

$$= \sqrt{98.4375}$$

$$= 9.92 \text{ cm}^2$$

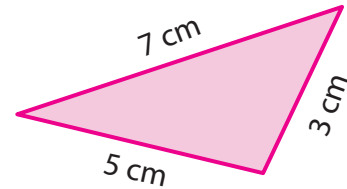
Find the area of scalene triangle and round it to two decimal places.

1)



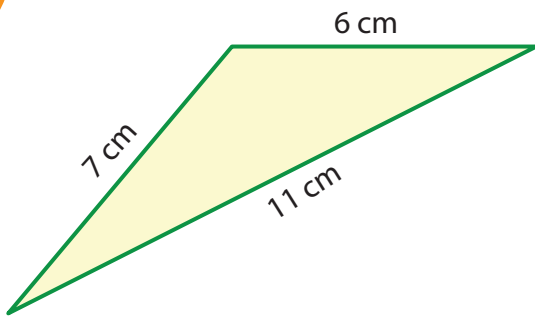
Area = 19.9 mm<sup>2</sup>

2)



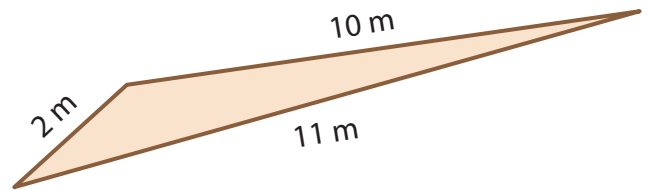
Area = 6.5 cm<sup>2</sup>

3)



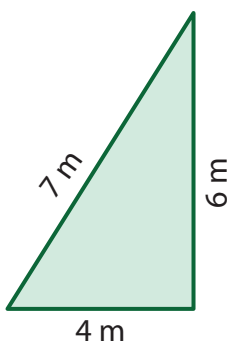
Area = 18.97 cm<sup>2</sup>

4)



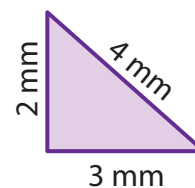
Area = 9.05 m<sup>2</sup>

5)



Area = 11.98 m<sup>2</sup>

6)



Area = 2.9 mm<sup>2</sup>