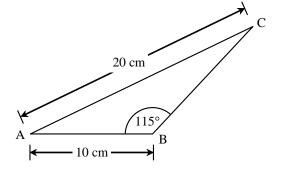


How many litres of paint will Mara have to buy?

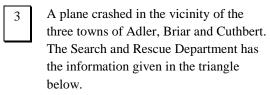
In triangle ABC on the right:

m
$$\overline{AC} = 20 \text{ cm}$$

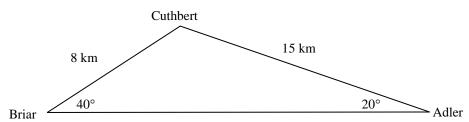
m $\overline{AB} = 10 \text{ cm}$
m $\angle ABC = 115^{\circ}$



What is the area of triangle ABC?



What is the area of the triangle formed by the three towns?



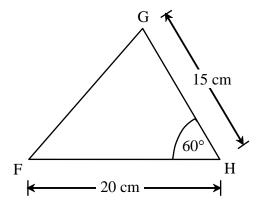
In a triangle FGH shown on the right:

$$m\overline{FH} = 20 cm$$

$$m\overline{GH} = 15 \text{ cm}$$

$$m\angle FHG = 60^{\circ}$$

What is the area of triangle FGH?



In triangle RST shown on the right:

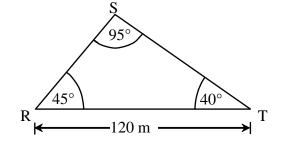
$$m \overline{RT} = 120 m$$

$$m \angle TRS = 45^{\circ}$$

$$m \angle RST = 95^{\circ}$$

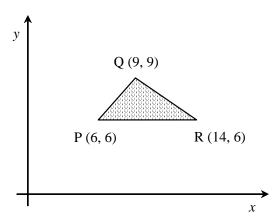
$$m \angle STR = 40^{\circ}$$

What is the area of triangle RST?



6

Determine the area of triangle PQR shown here on the Cartesian plane.



7

Line segment OQ divides triangle OPR shown below into two triangles: triangle OPQ and triangle OQR. In addition:

$$m\angle OQR = 53^{\circ}$$

$$m\angle ORP = 41^{\circ}$$

$$m\angle QOR = 12^{\circ}$$

$$m\overline{PQ} = 10 \text{ m}$$

$$m\overline{QR} = 2 m$$

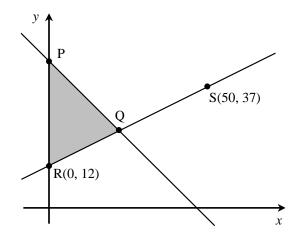
P 10 m

What is the area of triangle OPQ?

8

In the Cartesian plane below, lines PQ and RS intersect the y-axis at points P and R respectively. Lines PQ and RS intersect at point Q. The equation of line PQ is y = -x + 42.

What is the area of triangle PQR?



41°

R