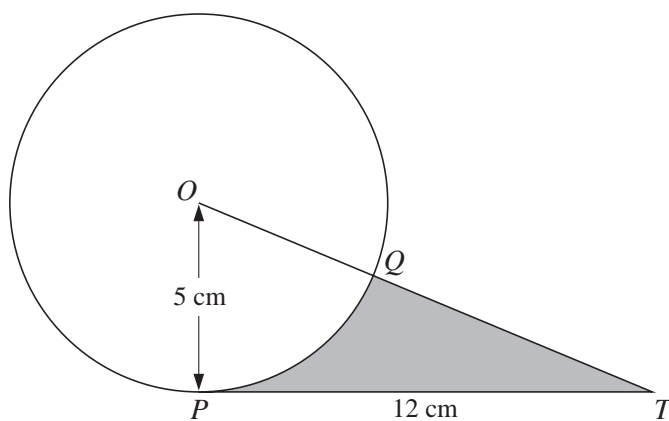


5



The diagram shows a circle with centre O and radius 5 cm . The point P lies on the circle, PT is a tangent to the circle and $PT = 12\text{ cm}$. The line OT cuts the circle at the point Q .

(i) Find the perimeter of the shaded region. [4]

(ii) Find the area of the shaded region. [3]