## 20. The diagram shows triangle PQR.

Q 7.6cm 8.2cm R  $\equiv$ 12.3cm P Diagram not drawn to scale. The triangle *PQR* is such that QR = 7.6 cm, PR = 12.3 cm and PQ = 8.2 cm. Find the size of PQR. (a)[3] Find the area of triangle PQR. (b) [2]

17. PQRS is a quadrilateral.



 $\widehat{SPQ} = 128^{\circ}$  and  $\widehat{QRS} = 36^{\circ}$ .

PQ = 8.6 cm, QR = 28.4 cm and SR = 24.7 cm.

Find the size of PSQ.

:: [6]



bearing of 126° (S54°E).

When ship A is 10 km from port P, ship B is 14 km from ship A. Calculate the bearing of ship A from ship B at this time.

	1 = 1.	202
······································		
	<u></u>	 
		[3]

**18.** The diagram shows triangle *ABC*.



18.	The diagram shows triangle $ABC$ . The point $D$ is on the side $BC$ of the triangle.				
	A 10.6 cm				
	$B \xrightarrow{35^{\circ}} C$				
	14.2 cm Diagram not drawn to scale.				
	Given that $ABC = 35^\circ$ , $ACB = 60^\circ$ , $AC = 10.6$ cm and $BD = 14.2$ cm, find the length of AD.				
	260 <sup></sup>				
	BBR (c)				
	•				

1.50

19. The diagram shows quadrilateral PQRS.



Diagram not drawn to scale.

Given that  $\widehat{SRQ} = 38^\circ$ ,  $\widehat{PSQ} = 47^\circ$ ,  $\widehat{PQS} = 59^\circ$ , SR = 8.6 cm and QR = 10.8 cm, find the length of PQ.

