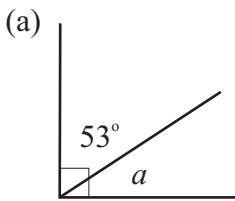
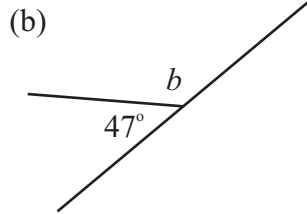


Name: _____

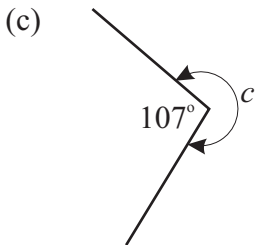
1. Calculate the unknown angles.



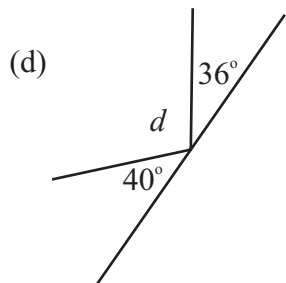
$a =$



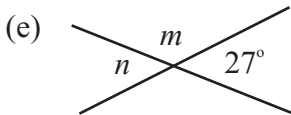
$b =$



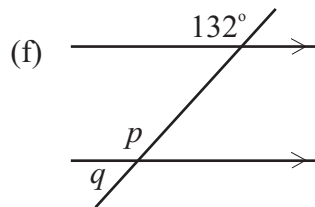
$c =$



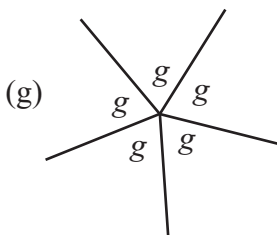
$d =$



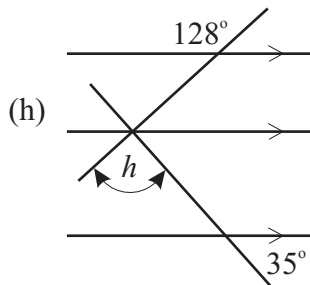
$m =$
 $n =$



$p =$
 $q =$



$g =$



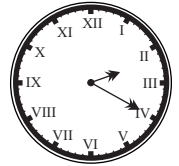
$h =$

2. A wheel of a bicycle has 15 spokes that are equally spaced.
What is the angle between two adjacent spokes?

3. Through what angle does the hour hand move in the following times?

(a) 1 hour (b) 3.5 hours (c) 20 minutes

4. What is the angle between the the hour and minute hands of a clock at 2:20?



5. 100 people were asked where they would go for a holiday. The results are shown in the table below.

If this information was to be displayed accurately on a pie graph, complete this table by calculating the angle of each section of the pie graph.

Holiday	Number	Angle
Beach	45	
Snow	20	
Bush	30	
City	5	

Use a protractor to accurately complete the pie graph.

