Name: Class:

18.2 Interpreting and drawing pie charts

A pie chart is used to display data to show how an amount is divided or shared. The angles in all the sectors add up to ()°. When you draw a pie chart you must make sure that each sector is () and the () are drawn accurately.

Worked example 18.2

- a 90 people were asked what type of holiday they had last year. The table shows the results of the survey.
 - I Draw a pie chart to represent the data.
 - II What percentage of the people went on a beach holiday?

Type of holiday	Number of people
Activity	32
Beach	27
City break	24
Other	7

Date:

Solution: First, work out the (). $() \circ \div () \text{ people} = () \circ \text{ per person}.$

Work out the number of degrees for each sector.

Activity: () \times () $^{\circ}$ = () $^{\circ}$

Beach: () \times () $^{\circ}$ = () $^{\circ}$

City break: () \times 4° = ()°

Other: ()× $4^{\circ} = ($)°

Check the () of all the sectors is ()°.

Draw the pie chart. Remember to use a () to measure each sector accurately.

Give the pie chart a () and () each ().

- b The pie chart shows where the 90 people went on holiday last year.
 - I What fraction of the population went to Spain?
 - II What percentage of the population went to Greece?
 - III How many people went to 'Other countries'?



i	Solution: ()/() = ()/()	30° out of 360° represents Spain.
		Cancel the fraction to its simplest form.
ii ()/()×()=()%	72° out of 360° represents Greece.	
	Multiply by 100 to get the percentage.	
III	()+()+()+()=()°	Add up the degrees that are shown for the four countries.
	()- ()= ()°	Subtract this total from 360° to find out how many degrees are left.
	()/()×() =() people	80° out of 360° is for 'Other countries'. Multiply the fraction by 90 to work out the number of people.

