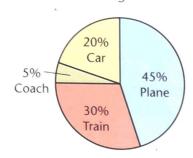
TARGET To interpret and construct pie charts.

Example 1

How 500 scientists travelled to an international conference on climate change.



How many people used each form of transport?

Car 100 people

 $(500 \div 10) \times 2$

Coach 25 people

 $(500 \div 10) \div 2$

Train 150 people $(500 \div 10) \times 3$

Plane

225 people

 $(500 \div 100) \times 45$

Example 2

Construct a pie chart to show the time given to each subject in Year 6 on Tuesdays.

Maths

60 mins

English

P.E.

75 mins.

Science

45 mins.

90 mins.

Music

30 mins.

Total

300 mins.

 $\frac{.60}{300} \frac{1}{5}$ A. Maths

 $360^{\circ} \div 5 = 72^{\circ}$

 $\frac{25}{300} \frac{1}{4}$ English

В.

 $360^{\circ} \div 4 = 90^{\circ}$

sector.

chart.

P.E.

 $\frac{45}{300} \frac{3}{20}$

 $(360^{\circ} \div 20) \times 3 = 54^{\circ}$

Find the angle at

the centre of each

Construct the pie

Science

 $\frac{90}{300} \frac{3}{10}$

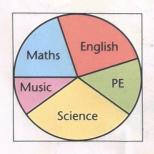
 $(360^{\circ} \div 10) \times 3 = 108^{\circ}$

Music

 $\frac{30}{300} \frac{1}{10}$

 $360^{\circ} \div 10 = 36^{\circ}$

B.

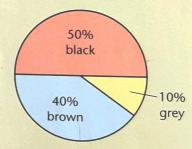




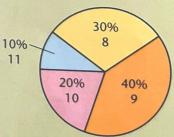
The pie chart shows the 56 new trees planted in a wood.



- a) How many of each type of tree were planted?
- b) Give the angle at the centre of the brown sector.
- The colours of 200 shoes sold in a shop.

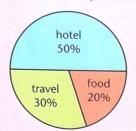


- a) How many shoes of each colour were sold?
- b) Give the angle at the centre of the yellow sector.
- The ages of 30 children at a party.

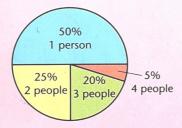


- a) How many children of each age were at the party?
- b) Give the angle at the centre of the pink sector.

Lindy's holiday cost £1500. The pie chart shows how the money was spent.



- 1 How much did Lindy spend on:
 - a) her hotel
- b) food
- c) travel?
- 2 Give the angle at the centre of each sector.
- 3 The number of people travelling in each of 120 cars.



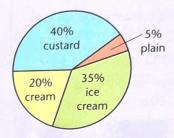
- a) How many cars carried each number of people?
- b) Construct the pie chart.
- 4 This table shows the 80 main courses served in an Italian restaurant.

	The same of the sa
Course	Servings
Fish	10
Pasta	20
Pizza	40
Meat	10

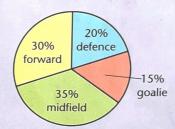
- a) Find the proportion of the 80 courses served represented by each type of course.
- b) Work out the angle at the centre of each sector of a pie chart showing these proportions.
- c) Construct the pie chart.

C

1 The pie chart shows what 160 people chose to be served with their apple pie.



- a) How many people chose each accompaniment?
- **b)** Give the angle at the centre of each sector.
- 2 The 40 members of a hockey club were asked to choose their best position. These are the results.



- a) How many members chose each position?
- b) Construct the pie chart.
- 3 This table shows the 3000 books in a library.

Categories	Books
Fiction	1350
Non-fiction	900
Children's	600
Reference	150

- a) Find the proportion of the total number of books represented by each category.
- b) Work out the angle at the centre of each sector of a pie chart showing the proportions.
- c) Construct the pie chart.