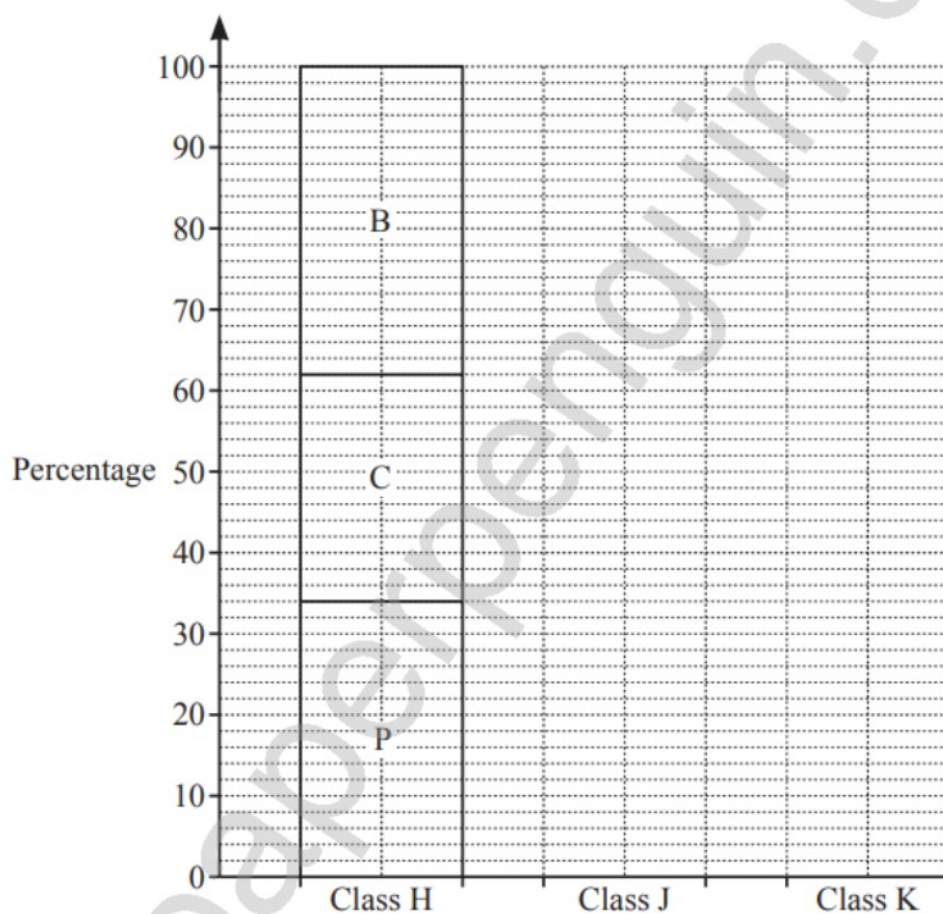


## Q Pie Charts and Bar Charts

- 4 The table shows the percentage of students in each of three classes who study physics, chemistry and biology.

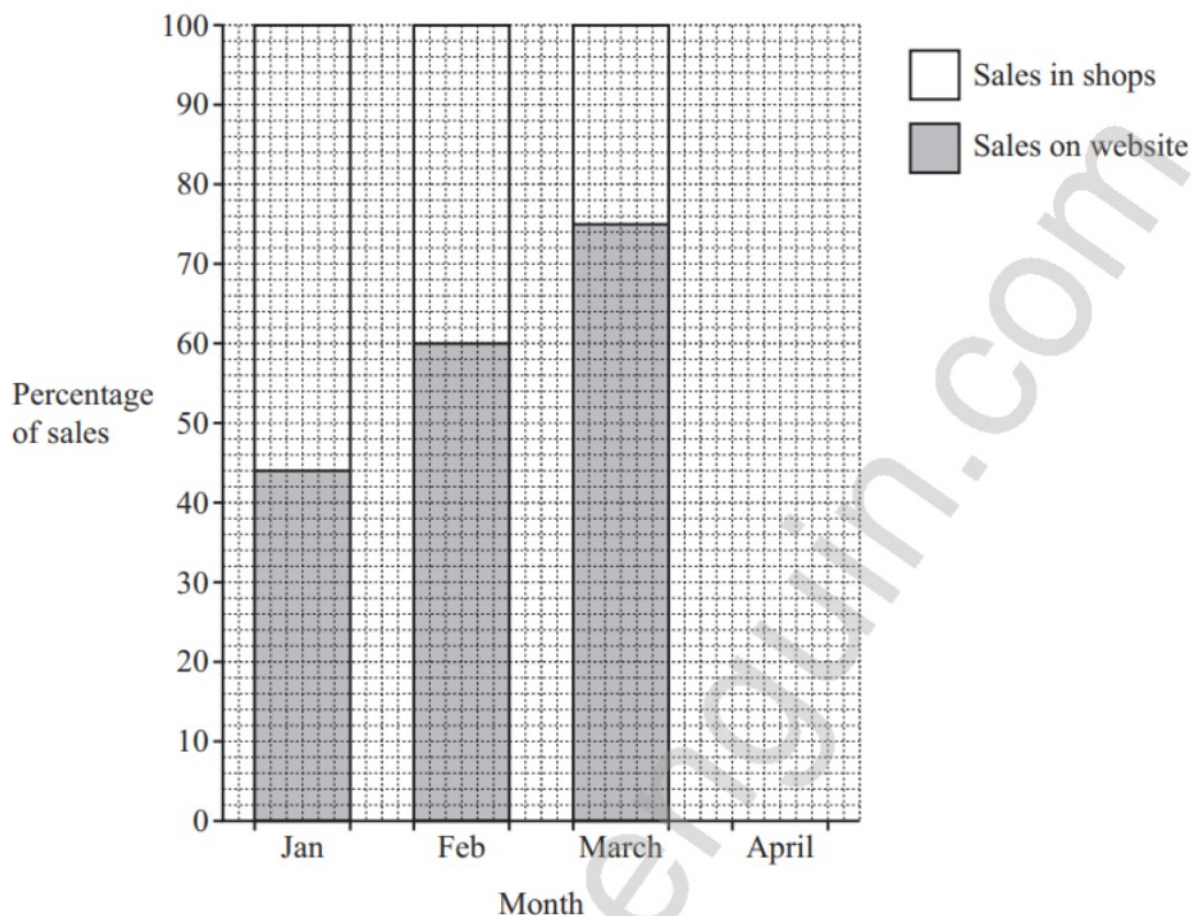
|         | Physics (P) | Chemistry (C) | Biology (B) |
|---------|-------------|---------------|-------------|
| Class H | 34          | 28            | 38          |
| Class J | 24          | 18            | 58          |
| Class K | 46          | 32            | 22          |

Complete the compound bar chart to show this information.



[3]

- 11 A company sells items either on a website or in shops.  
The composite bar chart shows the percentage of sales on the website and in shops for January, February and March.



- (a) In April,  $\frac{17}{20}$  of the company's sales were on the website.

On the grid, draw the bar for April.

[2]

- (b) In February, the company had sales of \$3.5 million.

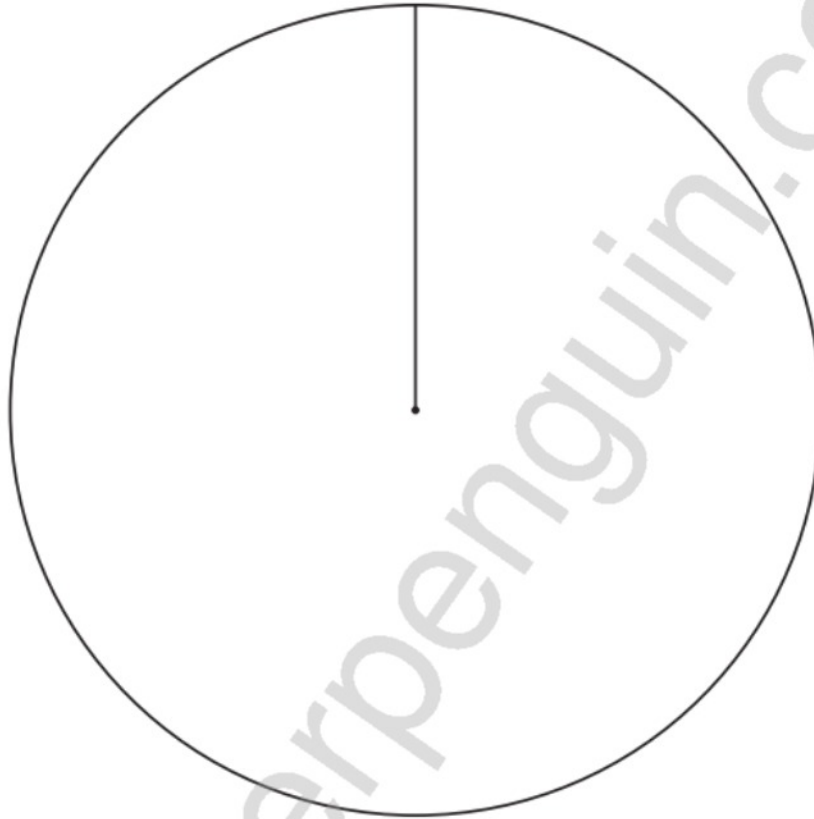
Work out the value of sales **in shops** in February.

\$ ..... million [3]

- 5 One week a shop sells 120 jars of ketchup.  
The table shows the number of jars of each size sold.

| Size        | Small | Medium | Large |
|-------------|-------|--------|-------|
| Number sold | 20    | 70     | 30    |

Show this information in a pie chart.



[3]

- 2 The table shows the number of each type of bird seen in a garden on Monday.

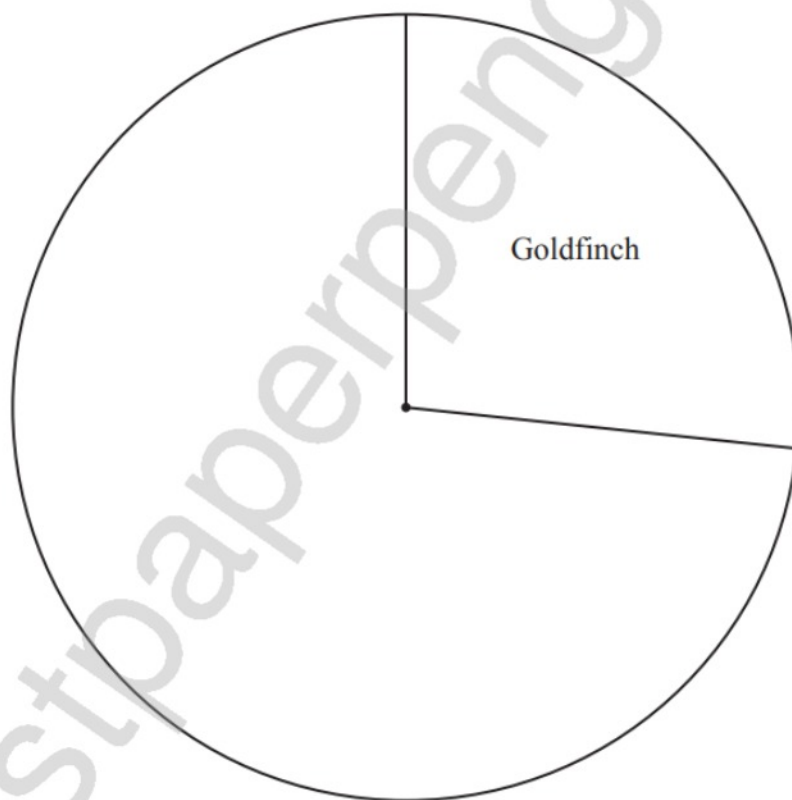
| Type of bird | Frequency | Pie chart sector angle |
|--------------|-----------|------------------------|
| Goldfinch    | 8         | 96°                    |
| Jay          | 6         |                        |
| Starling     | 11        |                        |
| Robin        | 5         |                        |

- (a) Find the percentage of the birds that are Starlings.

..... % [2]

- (b) (i) In the table, complete the column for the pie chart sector angle. [2]

- (ii) Complete the pie chart to show the information in the table.



[2]

- 2 Thibault records the number of cars of each colour in a car park.

| Colour         | Black | White | Silver | Red |
|----------------|-------|-------|--------|-----|
| Number of cars | 8     | 5     | 4      | 3   |

He draws a pie chart to show this information.

Calculate the sector angle for the red cars.

..... [2]

- 5 There are 20 cars in a car park and 3 of the cars are blue.

- (a) James wants to draw a pie chart to show this information.

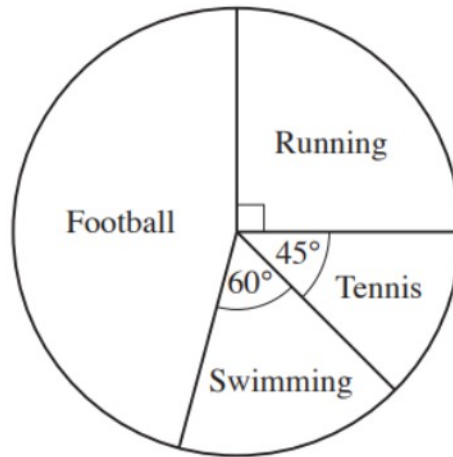
Find the angle of the sector for the blue cars in this pie chart.

..... [2]

- (b) One of the 20 cars is picked at random.

Find the probability that this car is **not** blue.

..... [1]



The pie chart shows the favourite sports of all the students at a school.  
180 students chose running as their favourite sport.

Work out

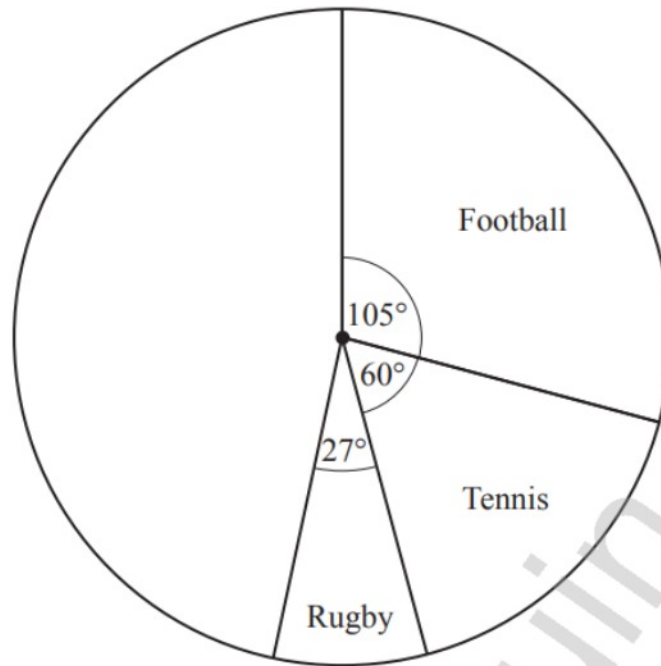
- (a) the total number of students at the school,

..... [1]

- (b) the number of students that chose football as their favourite sport.

..... [2]

- 8 (a) Jean asks 600 people to choose their favourite sport.  
The pie chart shows some of this information.



- (i) Show that 100 people choose tennis.
- (ii) Work out how many people choose rugby.
- .....
- (iii) 125 people choose cricket and the rest choose swimming.  
Complete the pie chart to show this information.

[1]

[2]

[2]