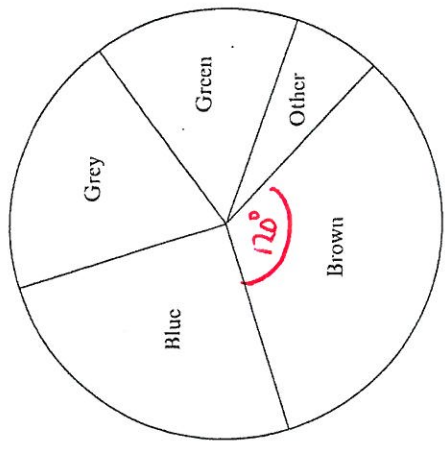


PIE CHARTS - READING THEM

Examiner only

7. The eye colour of each of 360 pupils was recorded. The data obtained was used to draw the following pie chart.



(a) What fraction of the pupils have blue eyes?

$$\frac{90}{360} \quad (\text{or } \frac{1}{4})$$

[2]

(b) How many pupils have brown eyes?

$$\frac{120}{360} \times 360 = 120$$

[2]



Examiner only

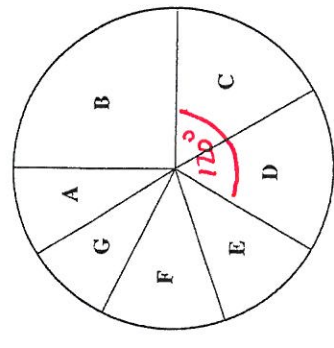
5. (a) Choose the best word from those given below to complete the following sentences.

- impossible unlikely an even chance likely certain

- (i) It is Certain that the sun will rise tomorrow.
- (ii) It is an even chance that I get a head when a coin is tossed.
- (iii) It is impossible that I score a total of 1 when two dice are thrown.
- (iv) I buy one ticket in a raffle in which a total of 1000 tickets are sold. It is unlikely that I will win the top prize.

[4]

(b)



The pie chart shows the distribution of GCSE grades in mathematics obtained by the Year 11 pupils at Abercwm Comprehensive School.

(i) What fraction of the pupils gained grade B?

$$\frac{90}{360} \quad (\text{or } \frac{1}{4})$$

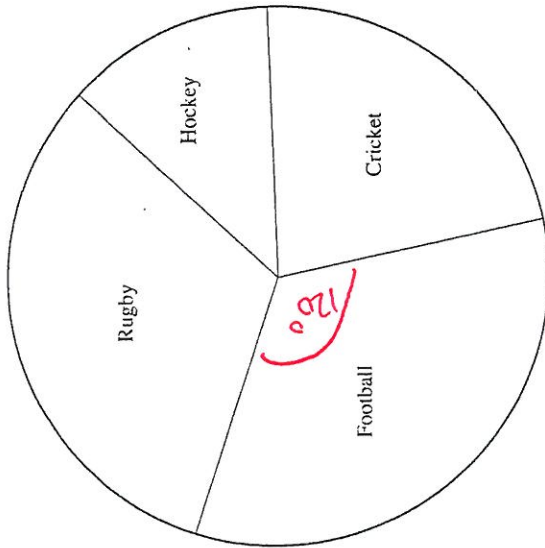
(ii) There are 240 pupils in Year 11. How many pupils gained grade C or grade D?

$$\frac{120}{360} \times 240 = 80 \text{ pupils}$$

[4]

Turn over.

8. Bryn carries out a survey to find out which of Rugby, Hockey, Cricket or Football each of 144 students preferred. He uses the data obtained to draw the following pie chart.



- (a) What fraction of the students answered 'Hockey'?

$$\frac{45}{360}$$

[2]

- (b) How many of the students answered 'Football'?

$$\frac{120}{360} \times 144 = 48 \text{ students}$$

[2]