Drawing Pie Charts
Video 163 on www.corbettmaths.com

Workout

*There is a template sheet at the end of this exercise

Question 1: Draw a pie chart for each set of data below

(a)

Method of Transport	Frequency
Car	8
Bus	11
Walk	12
Cycle	5

(b)

Rugby Team	Frequency
England	20
France	5
Ireland	15
Scotland	25
Wales	25

(c)

Colour	Frequency
Blue	25
Green	14
Red	21

(d)

Grade	Frequency
A	10
B	15
C	13
D	5
E	2

(e)

Make	Frequency
Ford	8
Mazda	14
Volkswagen	21
Fiat	20
Honda	9

(f)

Sport	Frequency
Cricket	7
Football	16
Gaelic Football	48
Hockey	33
Judo	4
Rugby	72

(g)

Language	Frequency
French	14
German	4
Polish	9
Spanish	3

(h)

Opinion	Frequency
Yes	3
No	11
Undecided	4

(i)

Drink	Frequency
Tea	410
Coffee	120
Fruit Juice	140
Water	50

Question 2: Draw a pie chart for each set of data below
You may use a calculator.

(a)

Holiday Destination	Frequency
France	102
Ireland	78
Portugal	24
Spain	36

(b)

Year Group	Frequency
7	5
8	17
9	20
10	8

(c)

| Meal	Frequency
Chinese	54
Indian	49
Italian	17
Thai	8

Apply

Question 1:   Anne-Marie has drawn a bar chart to show the eye colours in class 8D.

(a)   How many students are there in class 8D?

(b)   Show this information in a pie chart.

(c)   What fraction of the students have brown eyes?

(d)   What fraction of the students have blue eyes?

(e)   What fraction of the students have green eyes?

Eye colour in Class 8D

Frequency

Brown   Blue   Green
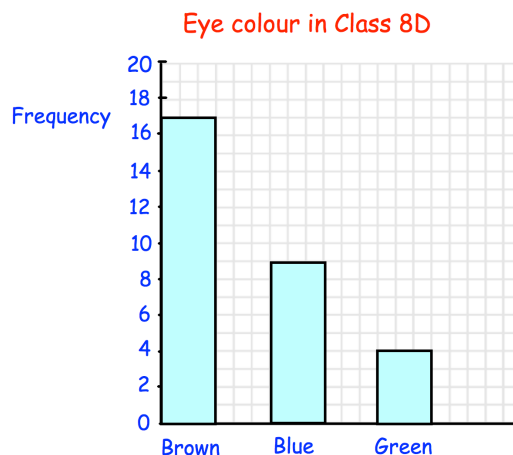
Question 2:   Bill has drawn a pie chart to show his friends' favourite genre of film.

Genre	Frequency
Comedy	26
Horror	14
Action	33
Drama	17

☐ Comedy

☐ Horror

☐ Action

☐ Drama
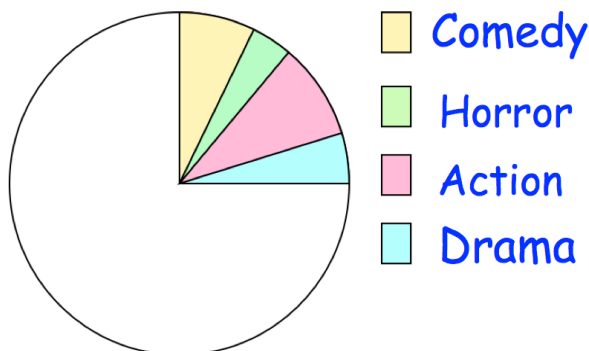
(a)   Can you explain to Bill what he has done wrong?

(b)   Draw a correct pie chart for Bill.

Question 3:   Erin is calculating the size of each angle for a pie chart.

(a)   Can you spot what Erin has done wrong?

(b) Calculate the correct angles

(c)   Draw a correct pie chart for Erin

Destination	Frequency	
Employment	15	$\times \ 0.2 = 3°$
Apprenticeship	11	$\times \ 0.2 = 2.2°$
Further Education	40	$\times \ 0.2 = 8°$
Gap Year	6	$\times \ 0.2 = 1.2°$

15 + 11 + 40 + 6 = 72

72 ÷ 360 = 0.2° per person

Templates

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