

# Pie Charts

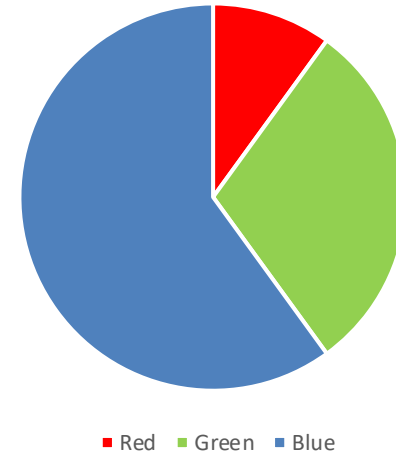


To work out frequencies from the angles, simply see what fraction of a full circle the slice occupies.

Favourite Colour	Frequency	Fraction	Angle
Red			36°
Green			108°
Blue			216°
<b>TOTAL</b>	200		

Best Event	Frequency	Fraction	Angle
Heptathlon	40		
Pentathlon	17		
Icosathlon	63		
<b>TOTAL</b>	120		

Favourite Colour



36° is  $\frac{1}{10}$  of 360°. So if a  $\frac{1}{10}$  of the 200 people like red...

It's exactly the same principle the other way round.

Favourite Colour	Frequency	Angle
Red	50	32°
Green	75	
<b>TOTAL</b>	?	

75 is half extra of 50, so half extra of 32° is  
 $32 + 16 = 48^\circ$

Even if the total isn't available, we can find missing angles/frequencies by:

- Finding out what one person/degree is worth or
- Scaling. e.g. If the angle doubles, the frequency doubles, and so on.

Instrument	Frequency	Fraction	Angle
Violin			54°
Piano			99°
Trumpet			207°
<b>TOTAL</b>	<b>120</b>		

Squirrel Type	Frequency	Percentage	Angle
Red	49		
Grey	87		
Black	23		
Ferret (not a squirrel)	4		
<b>TOTAL</b>			

1 We'll do the first one together...

Favourite Colour	Frequency	Fraction	Angle
Red	18		
Blue	27		
Green	42		
Orange	9		

2

Games Console Owned	Frequency	Fraction	Angle
Wii U	24		
PS3	97		
Xbox 360	76		
None	54		

3

Holiday Destination	Frequency	Fraction	Angle
Europe	11		
Asia	25		
Africa	6		
Antarctica	1		

4

Age of mother	Frequency	Fraction	Angle
16-30	16		
30-35	27		
35-40	58		
40+	39		