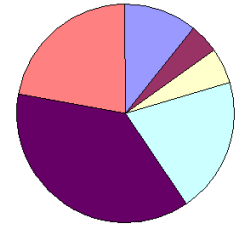


Pie Charts 1



Task A Making Pie Charts From Angles

- 1) 40 People were asked what color eyes they had. The results are shown in the table below. Create a pie chart displaying the data gathered.

Color	Number of People	Angle
Blue	10	90°
Brown	10	90°
Green	14	126°
Gray	6	54°
Total	40	360

- 2) The table below shows information about the most goals scored by 60 Premiership footballers in a single game. Create a pie chart displaying the data.

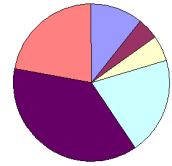
Number of Goals	Number of Players	Angle
One	15	90°
Two	25	150°
Three	10	60°
Four	8	48°
Five	2	12°
Total	60	360

- 3) 120 Female shoppers were asked to name their favorite clothes shop. The results are shown below. Create a pie chart displaying the data.

Shop	Number of People	Angle
Dorothy Perkins	20	60
River Island	10	30
Etam	35	105
Top Shop	25	75
Miss Selfridges	30	90
Total	120	360

You should now know how to make a pie chart when told the size of each angle. But what do you do when the angles are not given? The following page tackles this problem.

Pie Charts 1 (cont)



Task B Factors of 360°

The table below shows all the factors of 360.

1	360	2	180	3	120	4	90	5	72	6	60
8	45	9	40	10	36	12	30	15	24	18	20

Use the information to complete the following problems.

- | | | |
|---|---|--|
| a) $180 \times \underline{\quad} = 360$ | b) $90 \times \underline{\quad} = 360$ | c) $72 \times \underline{\quad} = 360$ |
| d) $36 \times \underline{\quad} = 360$ | e) $18 \times \underline{\quad} = 360$ | f) $3 \times \underline{\quad} = 360$ |
| g) $360 \times \underline{\quad} = 360$ | h) $180 \times \underline{\quad} = 360$ | i) $15 \times \underline{\quad} = 360$ |
| j) $30 \times \underline{\quad} = 360$ | k) $60 \times \underline{\quad} = 360$ | l) $8 \times \underline{\quad} = 360$ |

Task C Working out the Angles.

In Task A, you were told the size of each angle. Now you must work them out yourself.

- 1) 180 people were asked what color hair they had. The results are below. Copy and complete the table, then draw the pie chart.

Color	Number	Multiplier	Angle
Brown	60	$\times 2$	120
Black	50	$\times 2$	
Blonde	40	$\times 2$	
Ginger	30	$\times 2$	
Total	180		360

$360 \div 180 = \underline{\quad}$

- 2) 90 people were asked if they could swim. The results are below. Copy and complete the table, then draw the pie chart.

Answer	Number	Multiplier	Angle
No	20		
A little	30		
Well	25		
Very Well	15		
Total			