Constructing Pie Charts

Bill makes a list of all the cars in a car park:
Red, silver, black, black, black, red, black, black, red, black

Enter these into the tally chart below.

Car colour	Tally	Frequency
Silver	I	1
Red	III	3
Black	~~IIII~~ I	6

There are 10 cars in total.
So we want to divide our pie chart into 10 equal parts.
There are 360 degrees in a circle.

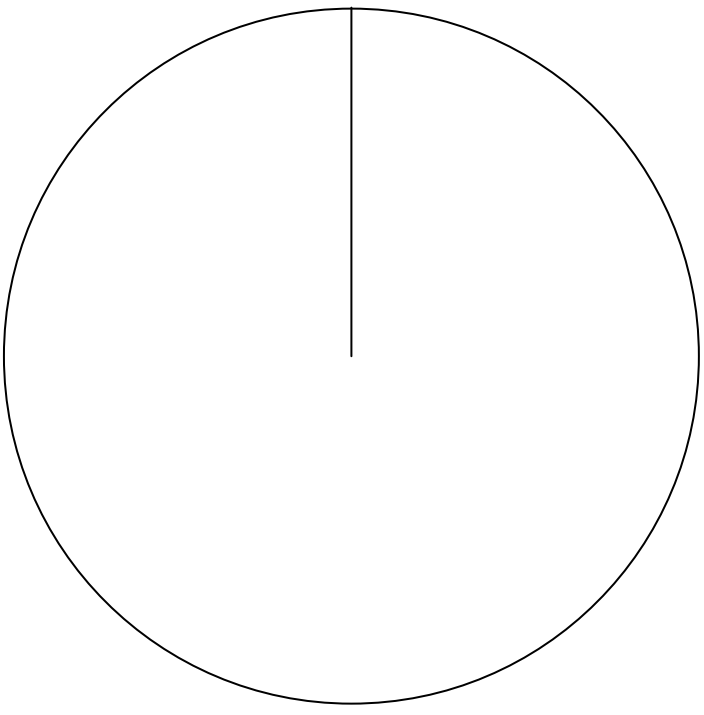
So each car is worth 360° ÷ 10 = 36°

Silver slice of pie = 1 × 36° = 36°

Red slice of pie = 3 × 36°= 108°

Black slice of pie = 6 × 36° = 216°

Starting at the vertical line, draw these slices onto the pie chart.



12 people are asked for their favourite crisp flavour. Here are the results:

5 ready salted
1 prawn cocktail
4 salt and vinegar
2 cheese and onion

There are 12 people in total
So we want to divide our pie chart into 12 equal parts
There are 360 degrees in a circle

So each person is worth 360° ÷ 12 = 30°

Ready salted slice of pie = 5 × 30° = 150°

Prawn cocktail slice of pie = 1 × 30°= 30°

Salt and vinegar slice of pie = 4 × 30° = 120°

Cheese and onion slice of pie = 2 × 30° = 60°

Starting at the vertical line, draw these slices onto the pie chart.