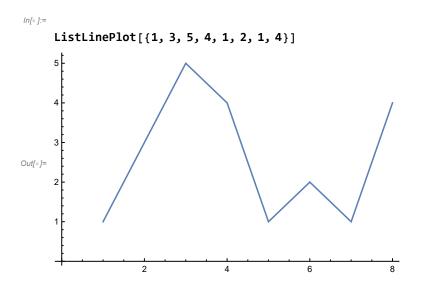
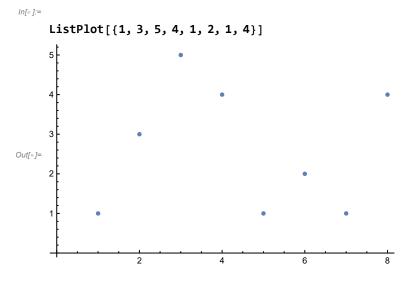
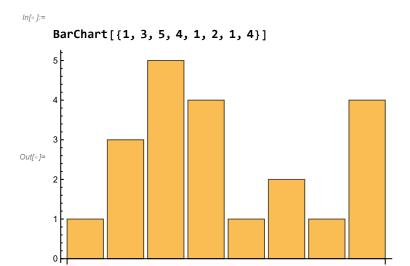
Displaying Lists

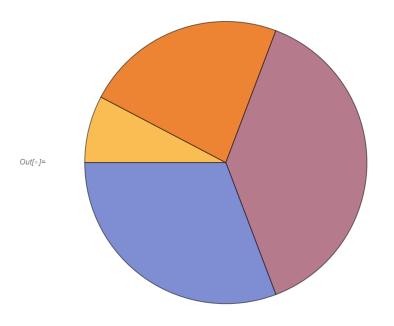
S.M. Raihanul Bashir







In[0]:=
PieChart[{1, 3, 5, 4}]

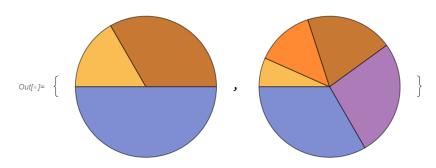


In[o]:=
NumberLinePlot[{1, 7, 11, 25}]
Out[o]=
0 5 10 15 20 25

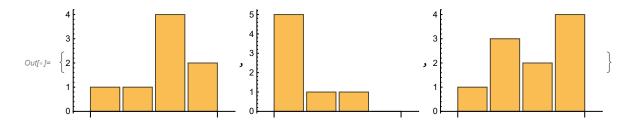
```
In[o ]:=
     Column[{100, 350, 502, 400}]
     100
     350
Out[•]=
     502
     400
```

*** Lists can contain anything, including graphics.

In[0]:= {PieChart[Range[3]], PieChart[Range[5]]}

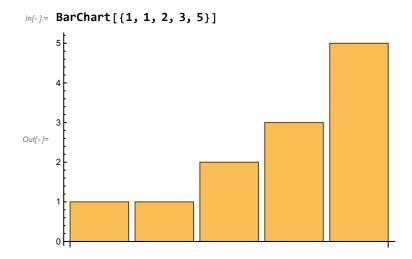


 $los_{los_{i}} = \{BarChart[\{1, 1, 4, 2\}], BarChart[\{5, 1, 1, 0\}], BarChart[\{1, 3, 2, 4\}]\}$



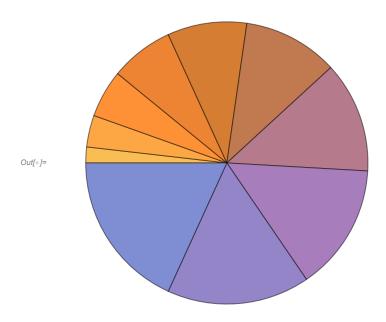
Exercises:

1. Make a bar chart of {1, 1, 2, 3, 5}



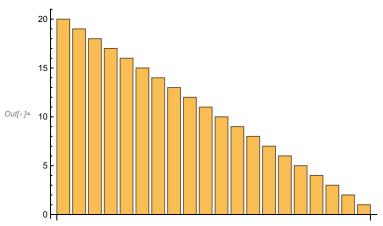
2. Make a pie chart of numbers from 1 to 10

In[*]:= PieChart[Range[10]]



3. Make a bar chart of numbers counting down from 20 to 1 $\,$





4. Display numbers from 1 to 5 in a column

In[*] J:= Column[Range[5]]

1

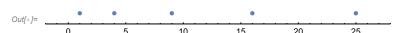
Out[•]= **3**

4

5

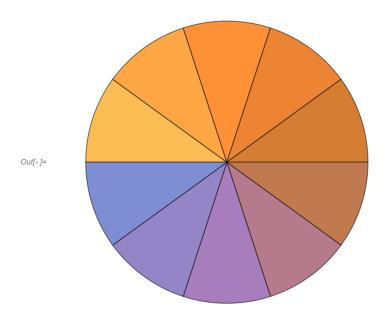
5. Make a number line plot of the squares {1, 4, 9, 16, 25}.

In[*]:= NumberLinePlot[{1, 4, 9, 16, 25}]



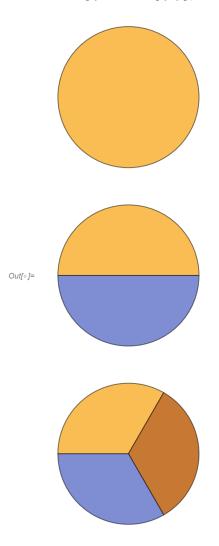
6. Make a pie chart with 10 identical segments, each of size 1

In[:]:= PieChart[{1, 1, 1, 1, 1, 1, 1, 1, 1, 1}]



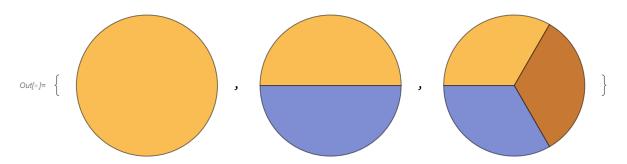
7. Make a column of pie charts with 1, 2 and 3 identical segments

In[*]:= Column[{PieChart[{1}], PieChart[{1, 1}], PieChart[{1, 1, 1}]}]

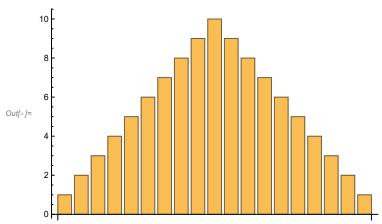


8. Make a list of pie charts with 1, 2 and 3 identical segments

 $\textit{ln[*]} := \texttt{List[PieChart[\{1\}], PieChart[\{1, 1\}], PieChart[\{1, 1, 1\}]]}$

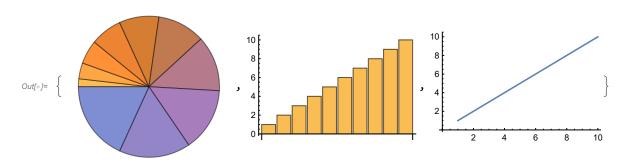


In[0]:= BarChart[Join[Range[10], Reverse[Range[9]]]]



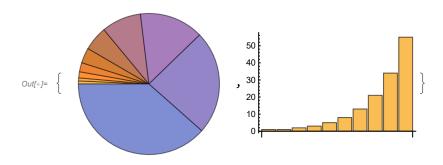
10. Make a list of a pie chart, bar chart and line plot of the numbers from 1 to 10

Info j= List[PieChart[Range[10]], BarChart[Range[10]], ListLinePlot[Range[10]]]



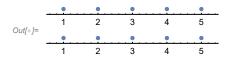
11. Make a list of a pie chart and a bar chart of {1, 1, 2, 3, 5, 8, 13, 21, 34, 55}

h[o]:= List[PieChart[Fibonacci[Range[10]]], BarChart[Fibonacci[Range[10]]]]



12. Make a column of two number line plots of {1, 2, 3, 4, 5}

In[*]:= Column[{NumberLinePlot[Range[5]]}, NumberLinePlot[Range[5]]}]



13. Make a number line of fractions 1/2, 1/3, ... through 1/9

 $\textit{In[e} := \text{NumberLinePlot}[\{1/2, 1/3, 1/4, 1/5, 1/6, 1/7, 1/8, 1/9\}]$

