Jeremy — 2025-01-17 — PS 1

```
In[1]:= 1 + 2 + 3
Out[1]= 6

In[2]:= 1 + 2 + 3 + 4 + 5
Out[2]= 15

In[3]:= 1 * 2 * 3 * 4 * 5
Out[3]= 120

In[4]:= 5 ^ 2
Out[4]= 25

In[5]:= 3 ^ 4
Out[5]= 81

In[6]:= 10 ^ 12
Out[6]= 1 000 000 000 000

In[7]:= 3 ^ (7 * 8)
Out[7]= 523 347 633 027 360 537 213 511 521

In[8]:= (4 - 2) * (3 + 4)
Out[8]= 14

In[9]:= 29 000 * 73
Out[9]= 2 117 000

In[10]:= -3 + -2 + -1 + 0 + 1 + 2 + 3
Out[10]=
0

In[11]:= 24 / 3
Out[11]=
8

In[12]:= 5 ^ 100
Out[12]=
7 888 609 052 210 118 054 117 285 652 827 862 296 732 064 351 090 230 047 702 789 306 640 625

In[13]:= 100 - 5 ^ 2
Out[13]=
75
```

This is perfect. I don't even
see any stylistic things to comment on.

You don't have to do the bonus excercises.
I save those for if I need a refresher.

10/10

In[14]:=
```
6 * 5 ^ 2 + 7
```
Out[14]=
```
157
```

In[15]:=
```
3 ^ 2 - 2 ^ 3
```
Out[15]=
```
1
```

In[16]:=
```
2 ^ 3 * 3 ^ 2
```
Out[16]=
```
72
```

In[17]:=
```
2 * (8 - 11)
```
Out[17]=
```
-6
```

In[18]:=
```
Plus[7, 6, 5]
```
Out[18]=
```
18
```

In[19]:=
```
Times[2, Plus[3, 4]]
```
Out[19]=
```
14
```

In[20]:=
```
Max[6 * 8, 5 * 9]
```
Out[20]=
```
48
```

In[21]:=
```
RandomInteger[1000]
```
Out[21]=
```
506
```

In[22]:=
```
Plus[10, RandomInteger[10]]
```
Out[22]=
```
15
```

In[23]:=
```
Times[5, 4, 3, 2]
```
Out[23]=
```
120
```

In[24]:=
```
Subtract[2, 3]
```
Out[24]=
```
-1
```

In[25]:=
```
Times[Plus[8, 7], Plus[9, 2]]
```
Out[25]=
```
165
```

In[26]:=
```
Divide[Subtract[26, 89], 9]
```
Out[26]=
```
-7
```

In[27]:=
```
Subtract[100, Power[5, 2]]
```
Out[27]=
```
75
```

In[28]:=
```
Max[3^5, 5^3]
```
Out[28]=
```
243
```

In[29]:=
```
3 * Max[4^3, 3^4]
```
Out[29]=
```
243
```

In[30]:=
```
RandomInteger[1000] + RandomInteger[1000]
```
Out[30]=
```
1002
```

In[31]:=
```
Range[4]
```
Out[31]=
```
{1, 2, 3, 4}
```

In[32]:=
```
Range[100]
```
Out[32]=
```
{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42,
 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62,
 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81,
 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100}
```

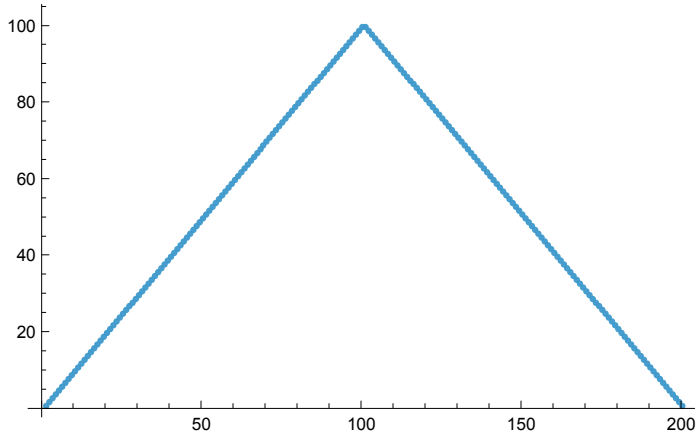
In[33]:=
```
Reverse[Range[4]]
```
Out[33]=
```
{4, 3, 2, 1}
```

In[34]:=
```
Reverse[Range[50]]
```
Out[34]=
```
{50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37,
 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20,
 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1}
```

In[35]:=
```
Join[Range[4], Reverse[Range[4]]]
```
Out[35]=
```
{1, 2, 3, 4, 4, 3, 2, 1}
```

In[36]:=
```
ListPlot[Join[Range[100], Reverse[Range[100]]]]
```

Out[36]=



In[37]:=
```
Range[RandomInteger[10]]
```

Out[37]=
```
{1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
```

In[38]:=
```
Range[10]
```

Out[38]=
```
{1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
```

In[39]:=
```
Range[5]
```

Out[39]=
```
{1, 2, 3, 4, 5}
```

In[40]:=
```
Join[Range[10], Range[10], Range[5]]
```

Out[40]=
```
{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 1, 2, 3, 4, 5}
```

In[41]:=
```
Join[Range[20], Reverse[Range[20]]]
```

Out[41]=
```
{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,
 20, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1}
```

In[42]:=
```
Reverse[Reverse[Range[4]]]
```

Out[42]=
```
{1, 2, 3, 4}
```

In[43]:=
```
Join[Range[5], Reverse[Range[4]]]
```

Out[43]=
```
{1, 2, 3, 4, 5, 4, 3, 2, 1}
```

In[44]:=
```
Join[Reverse[Range[3]], Reverse[Range[4]], Reverse[Range[5]]]
```

Out[44]=
```
{3, 2, 1, 4, 3, 2, 1, 5, 4, 3, 2, 1}
```

In[45]:=
```
Range[5] + 9
```

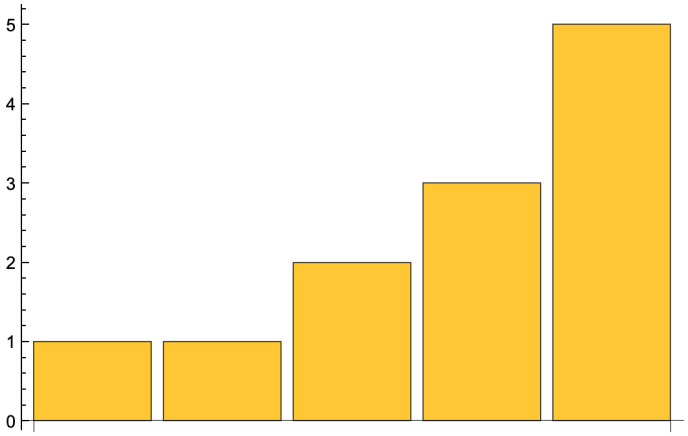
Out[45]=
```
{10, 11, 12, 13, 14}
```

In[46]:=
```
Join[Range[10], Reverse[Range[10]], Range[10]]
```

Out[46]=
```
{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
```

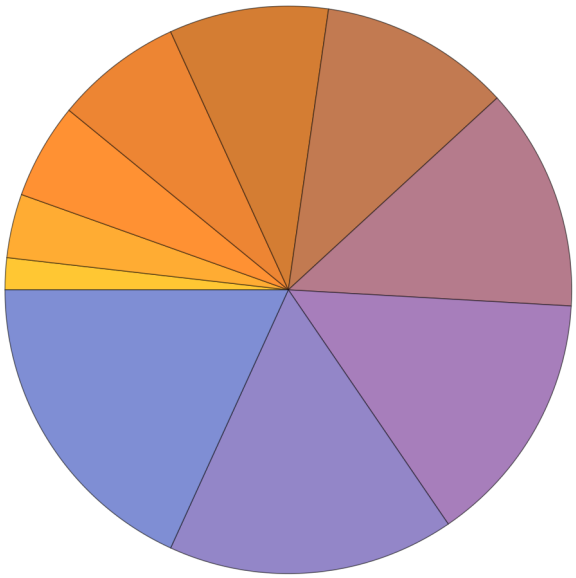
In[47]:=
```
BarChart[{1, 1, 2, 3, 5}]
```

Out[47]=



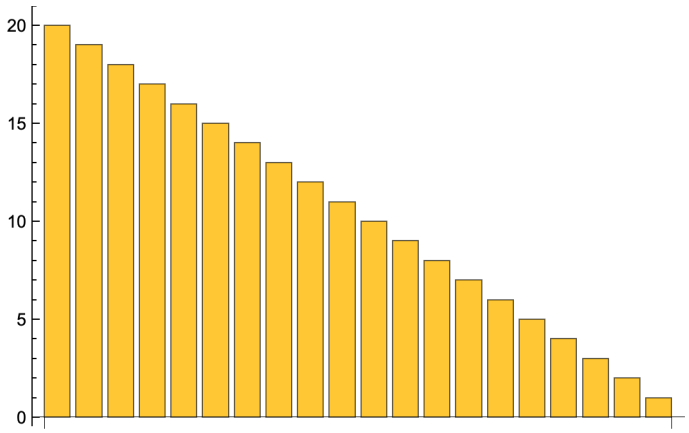
In[48]:=
```
PieChart[Range[10]]
```

Out[48]=



In[49]:=
```
BarChart[Reverse[Range[20]]]
```

Out[49]=



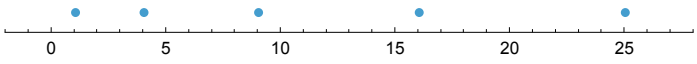
In[50]:=
```
Column[Range[5]]
```

Out[50]=

1
2
3
4
5

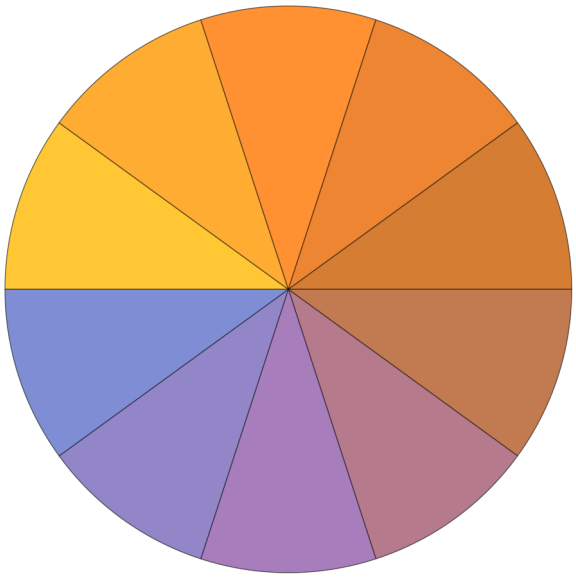
In[51]:=
```
NumberLinePlot[Range[5]^2]
```

Out[51]=



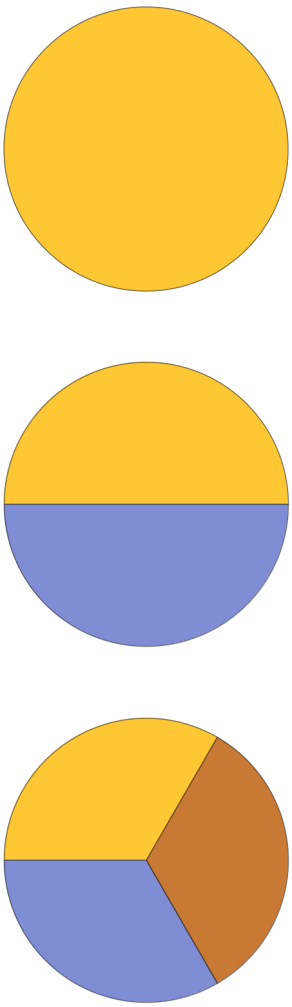
In[52]:=
```
PieChart[{1, 1, 1, 1, 1, 1, 1, 1, 1, 1}]
```

Out[52]=



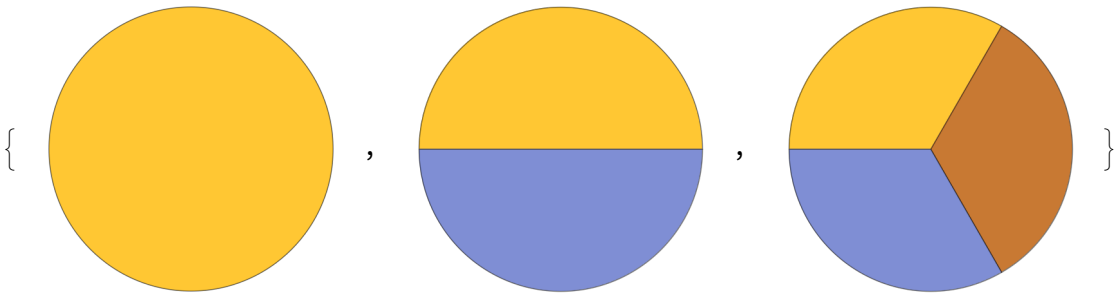
In[53]:=
```
Column[{PieChart[{1}], PieChart[{1, 1}], PieChart[{1, 1, 1}]}]
```

Out[53]=



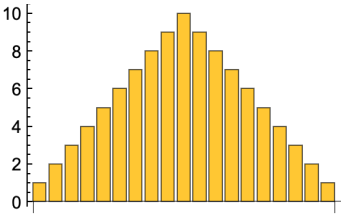
In[54]:=
```
{PieChart[{1}], PieChart[{1, 1}], PieChart[{1, 1, 1}]}
```

Out[54]=



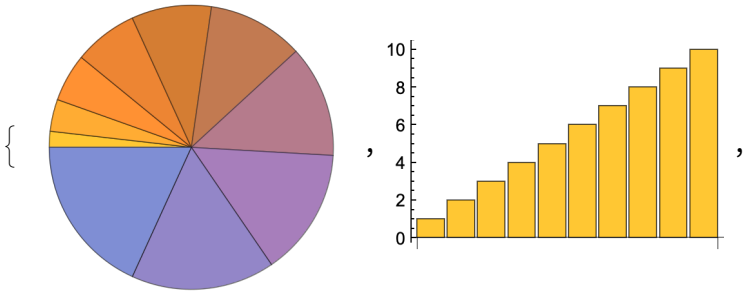
In[55]:=
```
BarChart[Join[Range[10], Reverse[Range[9]]]]
```

Out[55]=



In[56]:=
```
{PieChart[Range[10]], BarChart[Range[10]], LinePlot[Range[10]]}
```

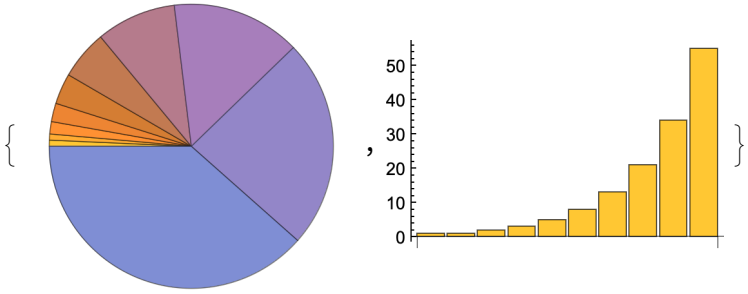
Out[56]=




```
LinePlot[{1, 2, 3, 4, 5, 6, 7, 8, 9, 10}]}
```

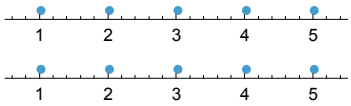
In[57]:=
```
{PieChart[{1, 1, 2, 3, 5, 8, 13, 21, 34, 55}],
 BarChart[{1, 1, 2, 3, 5, 8, 13, 21, 34, 55}]}
```

Out[57]=



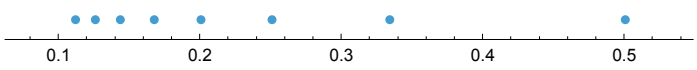
In[58]:=
```
Column[{NumberLinePlot[Range[5]], NumberLinePlot[Range[5]]}]
```

Out[58]=



In[59]:=
```
NumberLinePlot[{1 / 2, 1 / 3, 1 / 4, 1 / 5, 1 / 6, 1 / 7, 1 / 8, 1 / 9}]
```

Out[59]=



In[60]:=

In[61]:=

In[62]:=

In[63]:=