

Jeremy — 2025-01-17 — PS 1

In[120]:=

1 + 2 + 3

Out[120]=

6

In[121]:=

1 + 2 + 3 + 4 + 5

Out[121]=

15

In[122]:=

1 * 2 * 3 * 4 * 5

Out[122]=

120

In[123]:=

5 ^ 2

Out[123]=

25

In[124]:=

3 ^ 4

Out[124]=

81

In[125]:=

10 ^ 12

Out[125]=

1 000 000 000 000

In[126]:=

3 ^ (7 * 8)

Out[126]=

523 347 633 027 360 537 213 511 521

In[127]:=

(4 - 2) * (3 + 4)

Out[127]=

14

In[128]:=

29 000 * 73

Out[128]=

2 117 000

In[129]:=

-3 + -2 + -1 + 0 + 1 + 2 + 3

Out[129]=

0

```
In[130]:=
```

24 / 3

```
Out[130]=
```

8

```
In[131]:=
```

5 ^ 100

```
Out[131]=
```

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[132]:=
```

100 - 5 ^ 2

```
Out[132]=
```

75

```
In[133]:=
```

6 * 5 ^ 2 + 7

```
Out[133]=
```

157

```
In[134]:=
```

3 ^ 2 - 2 ^ 3

```
Out[134]=
```

1

```
In[135]:=
```

2 ^ 3 * 3 ^ 2

```
Out[135]=
```

72

```
In[136]:=
```

2 * (8 - 11)

```
Out[136]=
```

-6

```
In[137]:=
```

Plus[7, 6, 5]

```
Out[137]=
```

18

```
In[138]:=
```

Times[2, Plus[3, 4]]

```
Out[138]=
```

14

```
In[139]:=
```

Max[6 * 8, 5 * 9]

```
Out[139]=
```

48

```
In[140]:=
```

RandomInteger[1000]

```
Out[140]=
```

450

```
In[141]:= Plus[10, RandomInteger[10]]
Out[141]= 13

In[142]:= Times[5, 4, 3, 2]
Out[142]= 120

In[143]:= Subtract[2, 3]
Out[143]= -1

In[144]:= Times[Plus[8, 7], Plus[9, 2]]
Out[144]= 165

In[145]:= Divide[Subtract[26, 89], 9]
Out[145]= -7

In[146]:= Subtract[100, Power[5, 2]]
Out[146]= 75

In[147]:= Max[3^5, 5^3]
Out[147]= 243

In[148]:= 3 * Max[4^3, 3^4]
Out[148]= 243

In[149]:= RandomInteger[1000] + RandomInteger[1000]
Out[149]= 650

In[150]:= Range[4]
Out[150]= {1, 2, 3, 4}
```

In[151]:=

Range[100]

Out[151]=

```
{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[152]:=

Reverse[Range[4]]

Out[152]=

```
{4, 3, 2, 1}
```

In[153]:=

Reverse[Range[50]]

Out[153]=

```
{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[154]:=

Join[Range[4], Reverse[Range[4]]]

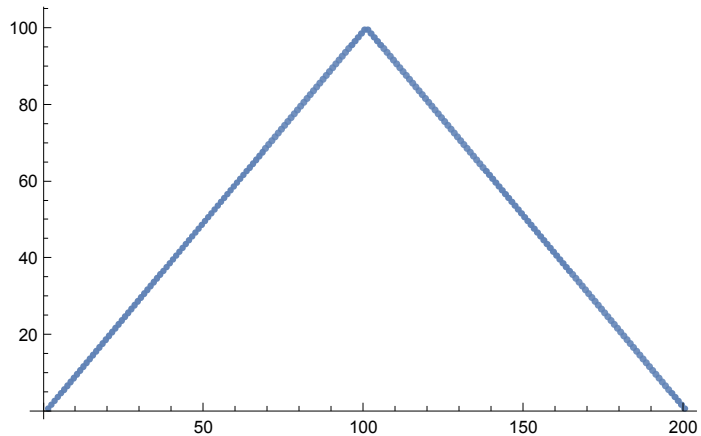
Out[154]=

```
{1, 2, 3, 4, 4, 3, 2, 1}
```

In[155]:=

ListPlot[Join[Range[100], Reverse[Range[100]]]]

Out[155]=



In[156]:=

Range[RandomInteger[10]]

Out[156]=

```
{1, 2, 3, 4, 5}
```

In[157]:=

Range[10]

Out[157]=

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

In[158]:=

Range[5]

Out[158]=

{1, 2, 3, 4, 5}

In[159]:=

Join[Range[10], Range[10], Range[5]]

Out[159]=

{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[160]:=

Join[Range[20], Reverse[Range[20]]]

Out[160]=

{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[161]:=

Reverse[Reverse[Range[4]]]

Out[161]=

{1, 2, 3, 4}

In[162]:=

Join[Range[5], Reverse[Range[4]]]

Out[162]=

{1, 2, 3, 4, 5, 4, 3, 2, 1}

In[163]:=

Join[Reverse[Range[3]], Reverse[Range[4]], Reverse[Range[5]]]

Out[163]=

{3, 2, 1, 4, 3, 2, 1, 5, 4, 3, 2, 1}

In[164]:=

Range[5] + 9

Out[164]=

{10, 11, 12, 13, 14}

In[165]:=

Join[Range[10], Reverse[Range[10]], Range[10]]

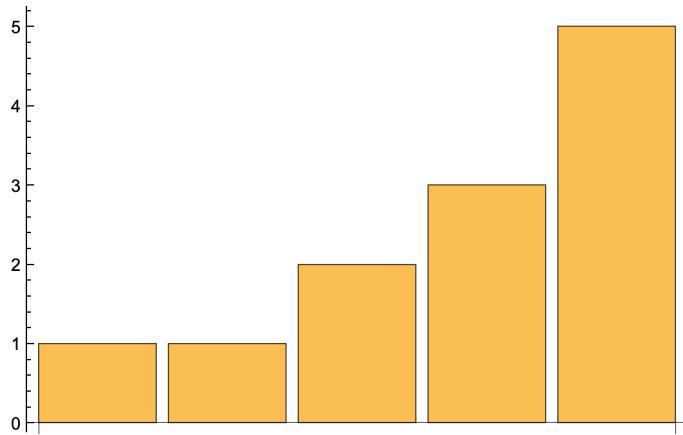
Out[165]=

{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[166]:=
```

```
BarChart[{1, 1, 2, 3, 5}]
```

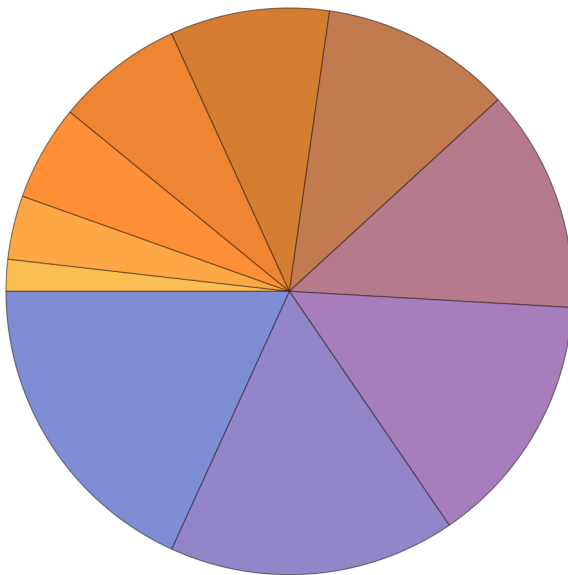
```
Out[166]=
```



```
In[167]:=
```

```
PieChart[Range[10]]
```

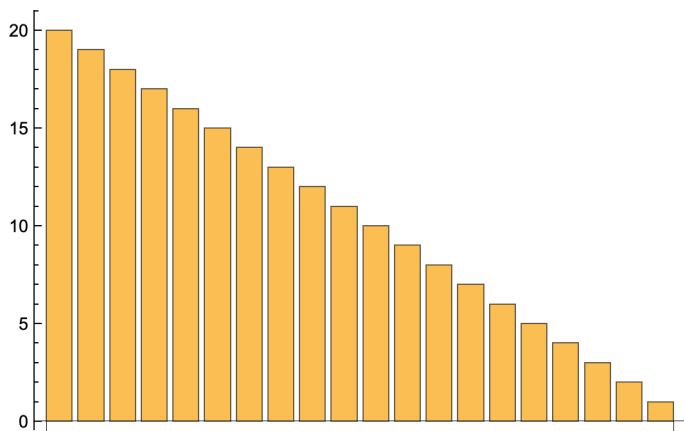
```
Out[167]=
```



In[168]:=

BarChart[Reverse[Range[20]]]

Out[168]=



In[169]:=

Column[Range[5]]

Out[169]=

1
2
3
4
5

In[170]:=

NumberLinePlot[Range[5]^2]

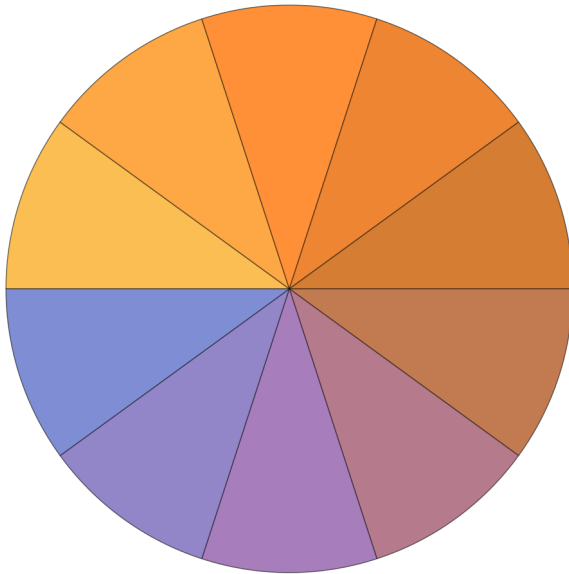
Out[170]=



In[171]:=

PieChart[{1, 1, 1, 1, 1, 1, 1, 1, 1, 1}]

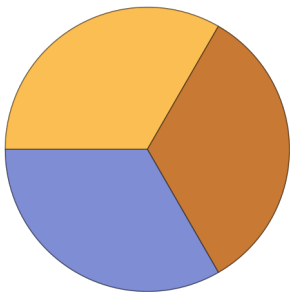
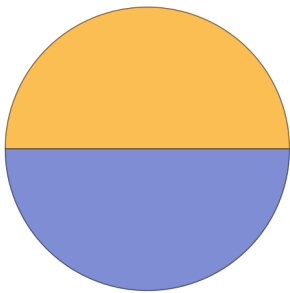
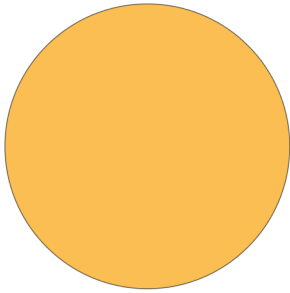
Out[171]=



In[172]:=

```
Column[{PieChart[{1}], PieChart[{1, 1}], PieChart[{1, 1, 1}]}]
```

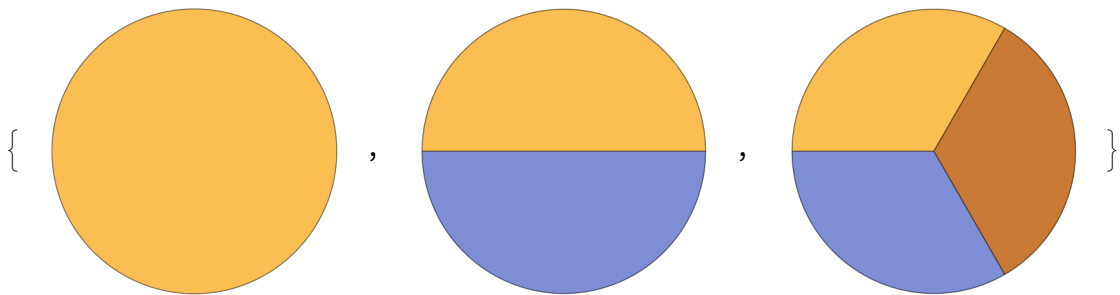
Out[172]=



In[173]:=

```
{PieChart[{1}], PieChart[{1, 1}], PieChart[{1, 1, 1}]}
```

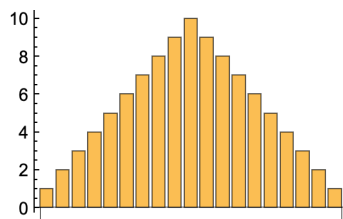
Out[173]=



In[174]:=

BarChart[Join[Range[10], Reverse[Range[9]]]]

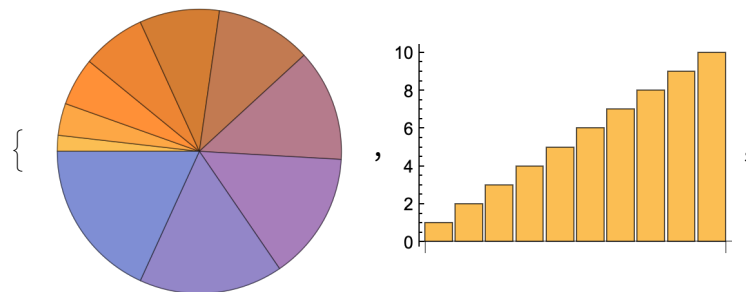
Out[174]=



In[175]:=

{PieChart[Range[10]], BarChart[Range[10]], LinePlot[Range[10]]}

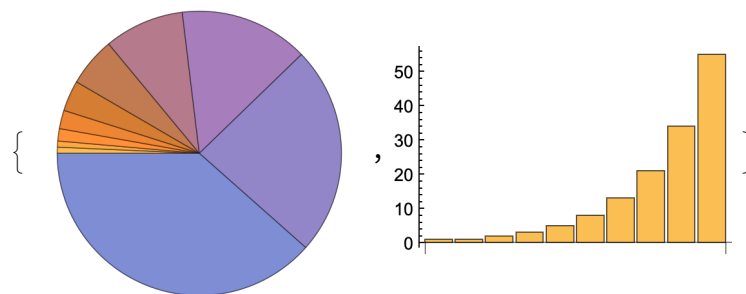
Out[175]=

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

In[176]:=

**{PieChart[{1, 1, 2, 3, 5, 8, 13, 21, 34, 55}],
BarChart[{1, 1, 2, 3, 5, 8, 13, 21, 34, 55}]}**

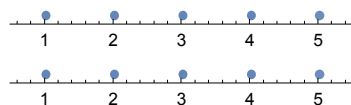
Out[176]=



In[177]:=

Column[{NumberLinePlot[Range[5]], NumberLinePlot[Range[5]]}]

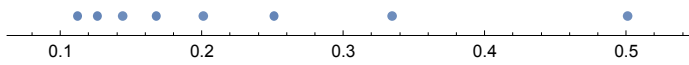
Out[177]=



In[178]:=

NumberLinePlot[{1/2, 1/3, 1/4, 1/5, 1/6, 1/7, 1/8, 1/9}]

Out[178]=



In[179]:=

In[180]:=

In[181]:=

In[182]:=