Eli — 2025-01-17 — PS 1

In[246]:=

1 + 2 + 3

Out[246]=

6

In[247]:=

1 + 2 + 3 + 4 + 5

Out[247]=

15

In[248]:=

1 × 2 × 3 × 4 × 5

Out[248]=

120

In[249]:=

5 ^ 2

Out[249]=

25

In[250]:=

3 ^ 4

Out[250]=

81

In[251]:=

10 ^ 12

Out[251]=

1 000 000 000 000

In[252]:=

3 ^ (7 × 8)

Out[252]=

523 347 633 027 360 537 213 511 521

In[253]:=

(4 − 2) (3 + 4)

Out[253]=

14

In[254]:=

29 000 × 73

Out[254]=

2 117 000

In[255]:=

−3 + −2 + −1 + 1 + 2 + 3

Out[255]=

0

In[256]:=
```
24 / 3
```
Out[256]=
```
8
```

In[257]:=
```
5 ^ 100
```
Out[257]=
```
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[258]:=
```
6 × 5 ^ 2 + 7
```
Out[258]=
```
157
```

In[259]:=
```
3 ^ 2 - 2 ^ 3
```
Out[259]=
```
1
```

In[260]:=
```
2 ^ 3 × 3 ^ 2
```
Out[260]=
```
72
```

In[261]:=
```
2 (8 - 11)
```
Out[261]=
```
-6
```

In[262]:=
```
Plus[7, 6, 5]
```
Out[262]=
```
18
```

In[263]:=
```
Times[2, Plus[3, 4]]
```
Out[263]=
```
14
```

In[264]:=
```
Max[6 × 8, 5 × 9]
```
Out[264]=
```
48
```

In[265]:=
```
RandomInteger[1000]
```
Out[265]=
```
220
```

In[266]:=
```
Plus[10, RandomInteger[10]]
```
Out[266]=
```
20
```

In[267]:=
```
Times[5, 4, 3, 2]
```
Out[267]=
120

In[268]:=
```
Subtract[2, 3]
```
Out[268]=
-1

In[269]:=
```
Times[Plus[8, 7], Plus[9, 2]]
```
Out[269]=
165

In[270]:=
```
Divide[Subtract[26, 89], 9]
```
Out[270]=
-7

In[271]:=
```
Subtract[100, Power[5, 2]]
```
Out[271]=
75

In[272]:=
```
Max[3^5, 5^3]
```
Out[272]=
243

In[273]:=
```
Times[3, Max[4^3, 3^4]]
```
Out[273]=
243

In[274]:=
```
Plus[RandomInteger[1000], RandomInteger[1000]]
```
Out[274]=
974

In[275]:=
```
Range[4]
```
Out[275]=
{1, 2, 3, 4}

In[276]:=
```
Range[100]
```
Out[276]=
{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[277]:=

```mathematica
Reverse[Range[4]]
```

Out[277]=

{4, 3, 2, 1}

In[278]:=

```mathematica
Reverse[Range[50]]
```

Out[278]=

{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[279]:=

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

Out[279]=

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

In[280]:=

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

Out[280]=

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

In[281]:=

```mathematica
ListPlot[Range[10, 14]]
```

Out[281]=
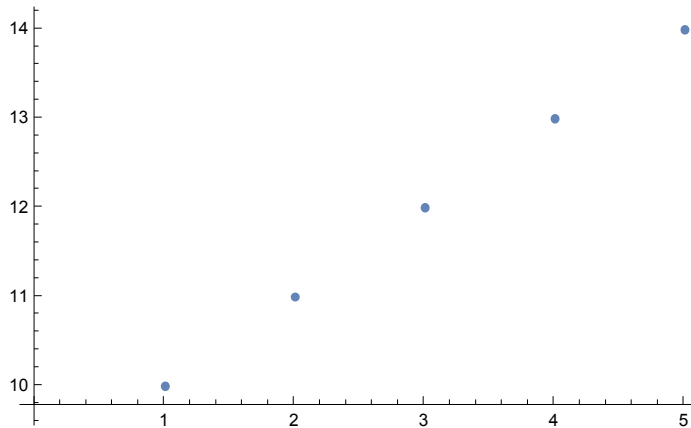
In[282]:=

```mathematica
Join[Range[10], Reverse[Range[10]], Range[10]]
```

Out[282]=

{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[283]:=

BarChart[{Range[5]}]

Out[283]=
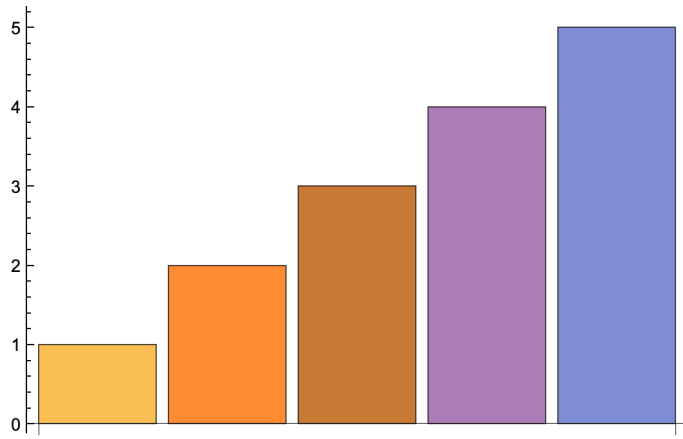
In[284]:=

PieChart[{Range[10]}]

Out[284]=

In[285]:=
```
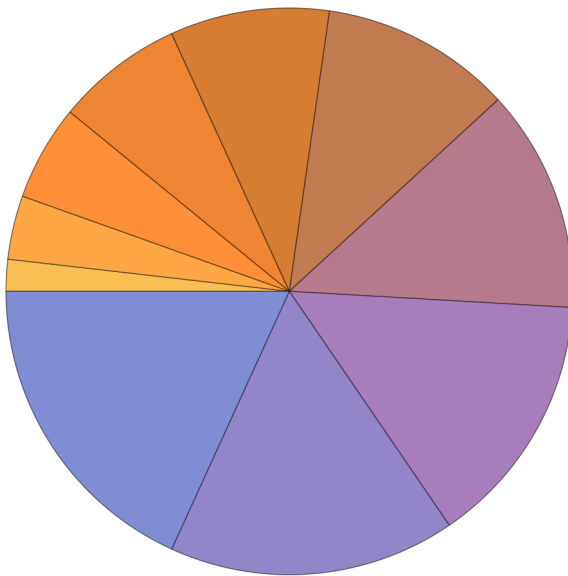BarChart3D[{Reverse[Range[20]]}]
```

Out[285]=
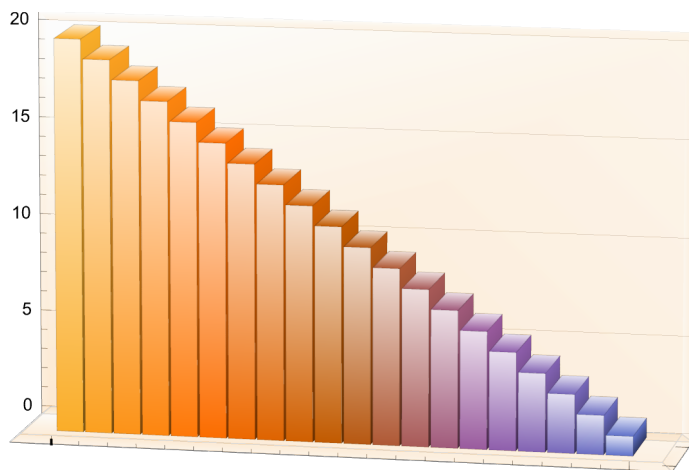
In[286]:=
```
Column[Range[5]]
```

Out[286]=
```
1
2
3
4
5
```

In[287]:=
```
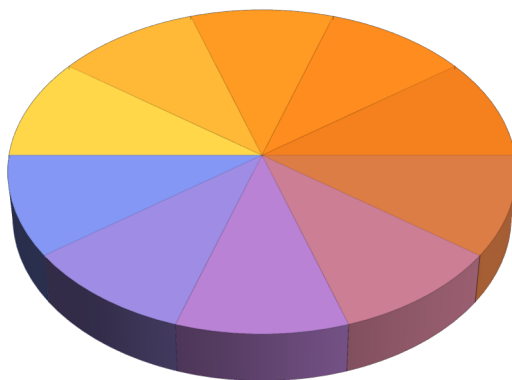NumberLinePlot[Power[Range[5], 2]]
```

Out[287]=

In[288]:=
```
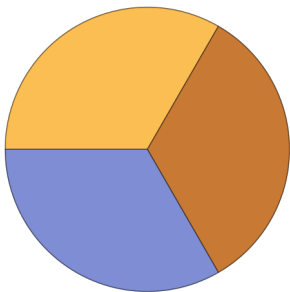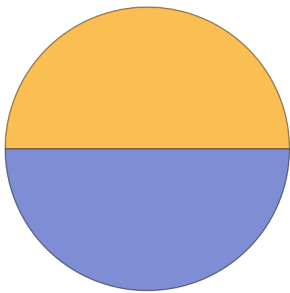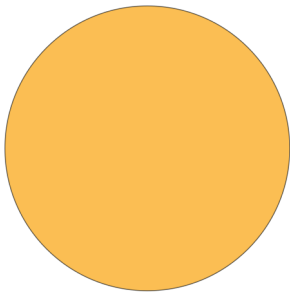PieChart3D[{1, 1, 1, 1, 1, 1, 1, 1, 1, 1}]
```

Out[288]=

In[289]:=
```
Column[{PieChart[{1}], PieChart[{1, 1}], PieChart[{1, 1, 1}]}]
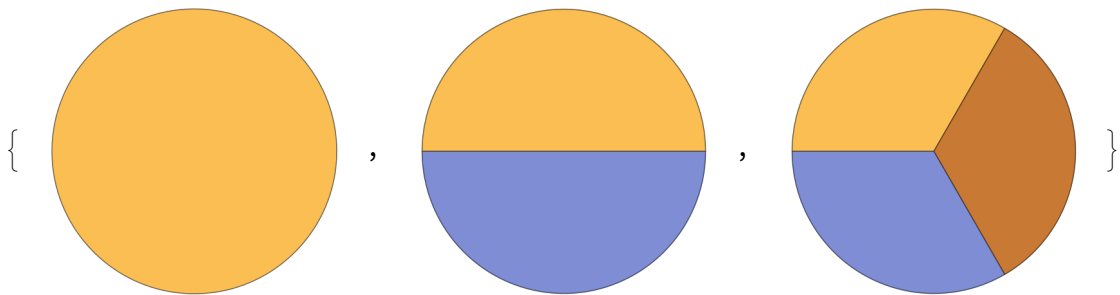```

Out[289]=



In[290]:=
```
{PieChart[{1}], PieChart[{1, 1}], PieChart[{1, 1, 1}]}
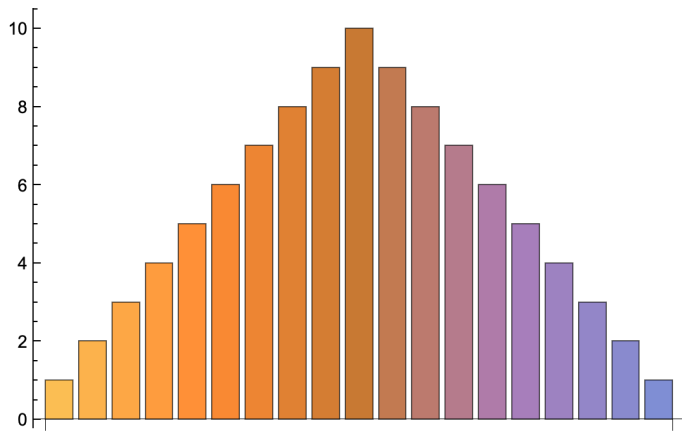```

Out[290]=

In[291]:=

```
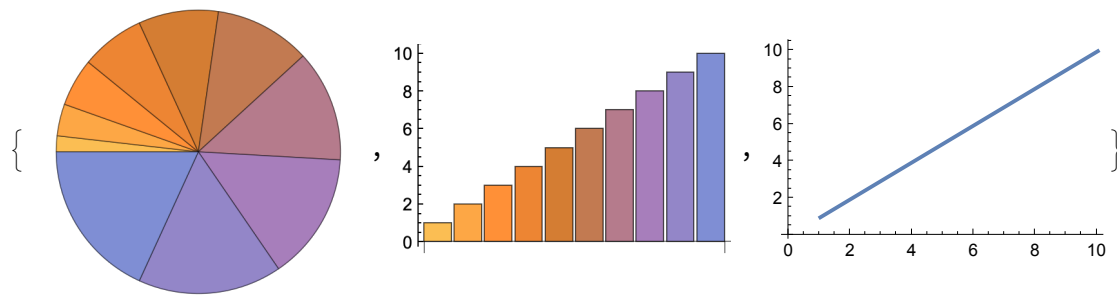BarChart[{Join[Range[10], Reverse[Range[9]]]}]
```

Out[291]=

In[292]:=

```
{PieChart[{Range[10]}], BarChart[{Range[10]}], ListLinePlot[{Range[10]}]}
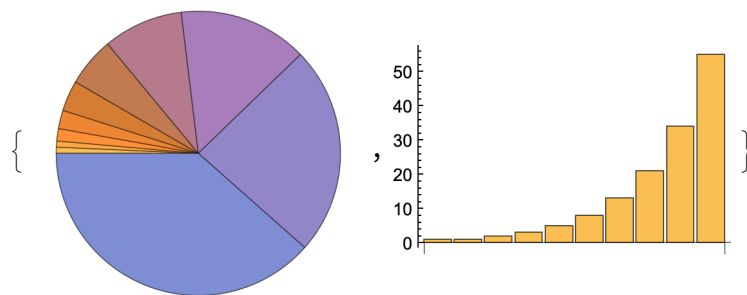```

Out[292]=



In[293]:=

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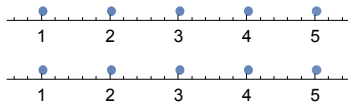 BarChart[{1, 1, 2, 3, 5, 8, 13, 21, 34, 55}]}
```

Out[293]=

In[294]:=

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

Out[294]=

In[295]:=

```
NumberLinePlot[{1 / Range[9]}]
```

Out[295]=