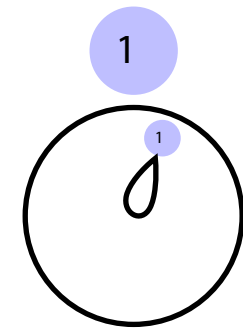
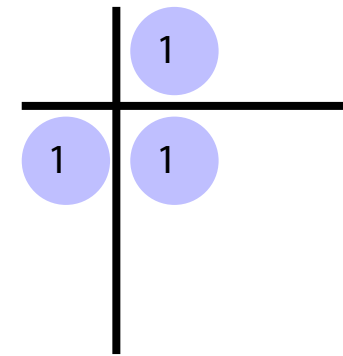
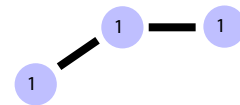


# Multiplication Tables for Signs: Positives, Negatives and Positions



Four varieties of multiplication tables.

● = Positive  
1 = Position

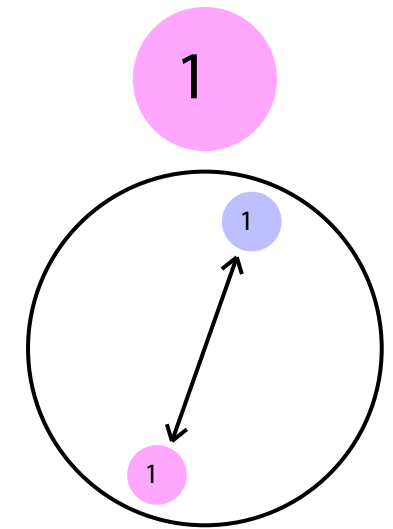
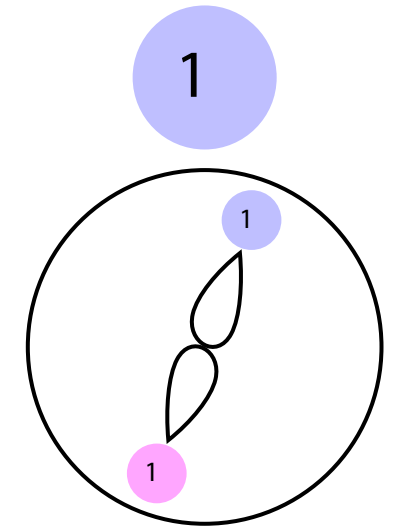
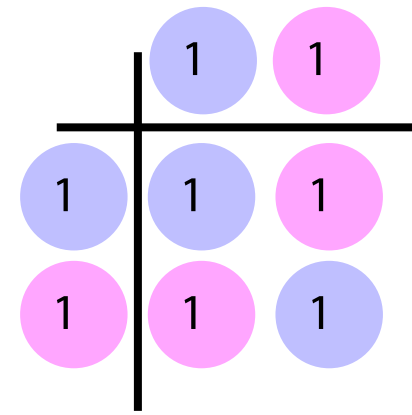
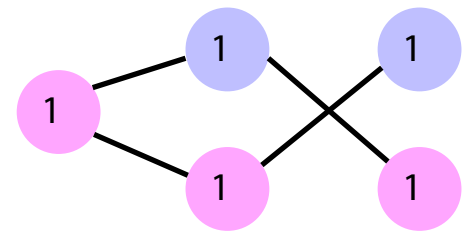
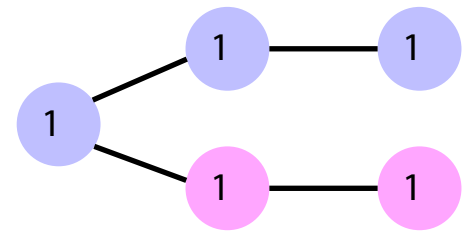
*Lenny Moore 2020*

$$1 \bullet 1 = 1$$

$$1 \bullet 1 = 1$$

$$1 \bullet 1 = 1$$

$$1 \bullet 1 = 1$$



● = Positive

● = Negative

1 = Positions

$$\begin{array}{l}
 1 \bullet 1 = 1 \\
 1 \bullet 2 = 2 \\
 1 \bullet 3 = 3 \\
 1 \bullet 4 = 4 \\
 1 \bullet 4 = 4 \\
 1 \bullet 3 = 3 \\
 1 \bullet 2 = 2 \\
 1 \bullet 1 = 1
 \end{array}$$

$$\begin{array}{l}
 2 \bullet 1 = 2 \\
 2 \bullet 2 = 3 \\
 2 \bullet 3 = 4 \\
 2 \bullet 4 = 1 \\
 2 \bullet 4 = 1 \\
 2 \bullet 3 = 4 \\
 2 \bullet 2 = 3 \\
 2 \bullet 1 = 2
 \end{array}$$

$$\begin{array}{l}
 3 \bullet 1 = 3 \\
 3 \bullet 2 = 4 \\
 3 \bullet 3 = 1 \\
 3 \bullet 4 = 2 \\
 3 \bullet 4 = 2 \\
 3 \bullet 3 = 1 \\
 3 \bullet 2 = 4 \\
 3 \bullet 1 = 3
 \end{array}$$



$$\begin{array}{l}
 4 \bullet 1 = 4 \\
 4 \bullet 2 = 1 \\
 4 \bullet 3 = 2 \\
 4 \bullet 4 = 3 \\
 4 \bullet 4 = 3 \\
 4 \bullet 3 = 2 \\
 4 \bullet 2 = 1 \\
 4 \bullet 1 = 4
 \end{array}$$

$$\begin{array}{l}
 1 \bullet 1 = 1 \\
 1 \bullet 2 = 2 \\
 1 \bullet 3 = 3 \\
 1 \bullet 4 = 4 \\
 1 \bullet 4 = 4 \\
 1 \bullet 3 = 3 \\
 1 \bullet 2 = 2 \\
 1 \bullet 1 = 1
 \end{array}$$

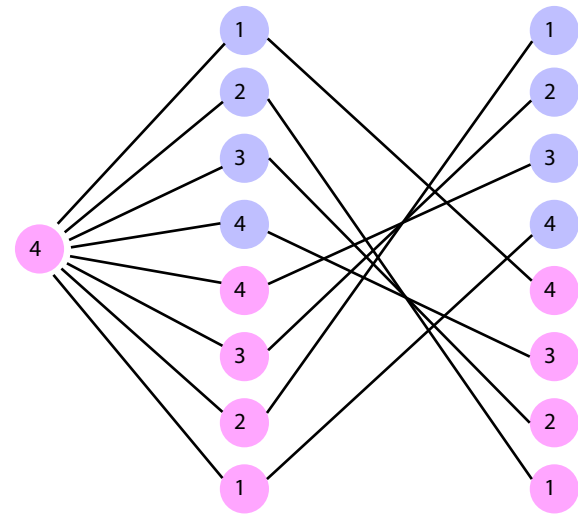
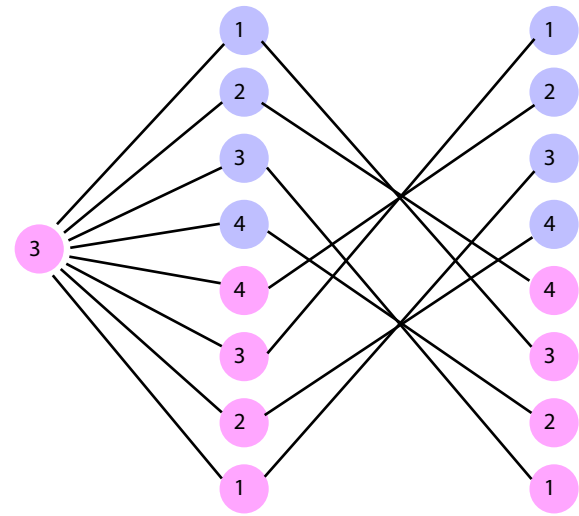
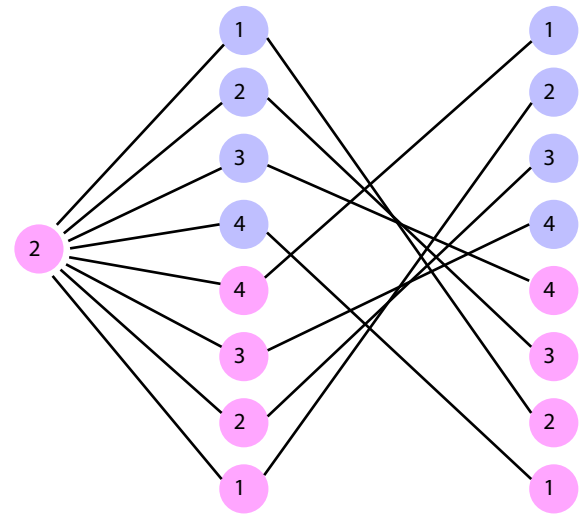
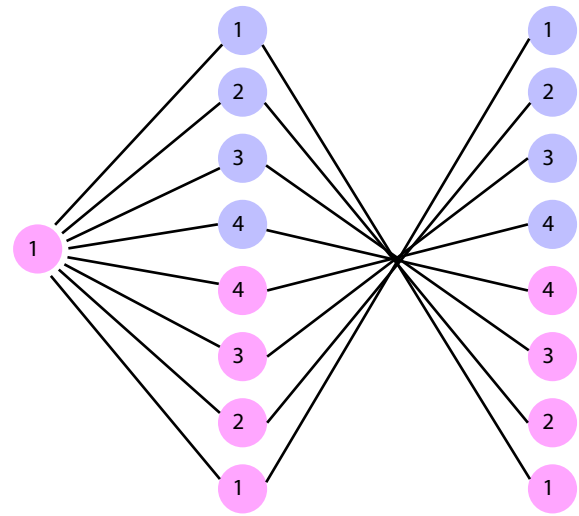
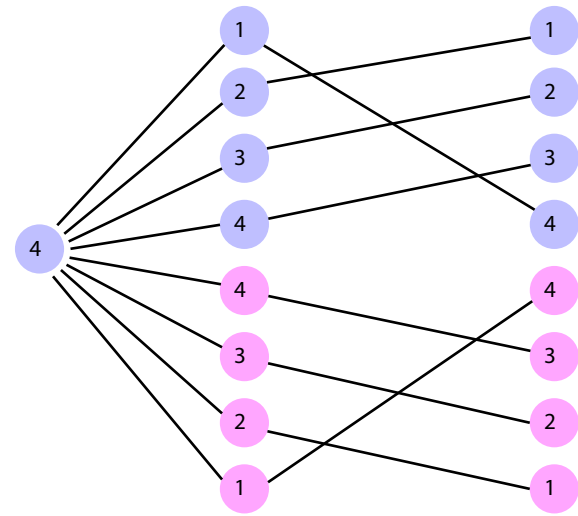
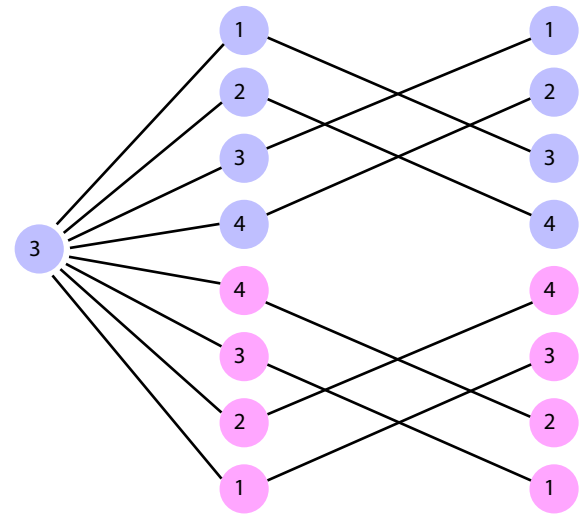
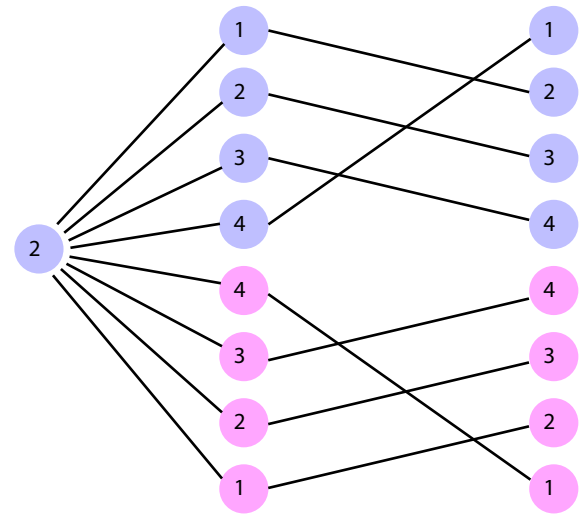
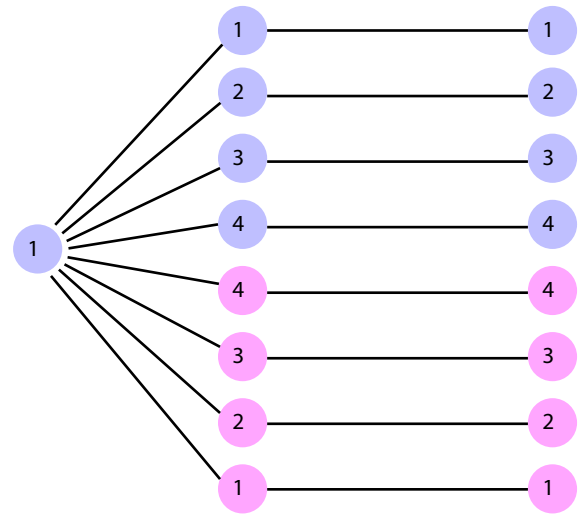
$$\begin{array}{l}
 2 \bullet 1 = 2 \\
 2 \bullet 2 = 3 \\
 2 \bullet 3 = 4 \\
 2 \bullet 4 = 1 \\
 2 \bullet 4 = 1 \\
 2 \bullet 3 = 4 \\
 2 \bullet 2 = 3 \\
 2 \bullet 1 = 2
 \end{array}$$

$$\begin{array}{l}
 3 \bullet 1 = 3 \\
 3 \bullet 2 = 4 \\
 3 \bullet 3 = 1 \\
 3 \bullet 4 = 2 \\
 3 \bullet 4 = 2 \\
 3 \bullet 3 = 1 \\
 3 \bullet 2 = 4 \\
 3 \bullet 1 = 3
 \end{array}$$

$$\begin{array}{l}
 4 \bullet 1 = 4 \\
 4 \bullet 2 = 1 \\
 4 \bullet 3 = 2 \\
 4 \bullet 4 = 3 \\
 4 \bullet 4 = 3 \\
 4 \bullet 3 = 2 \\
 4 \bullet 2 = 1 \\
 4 \bullet 1 = 4
 \end{array}$$

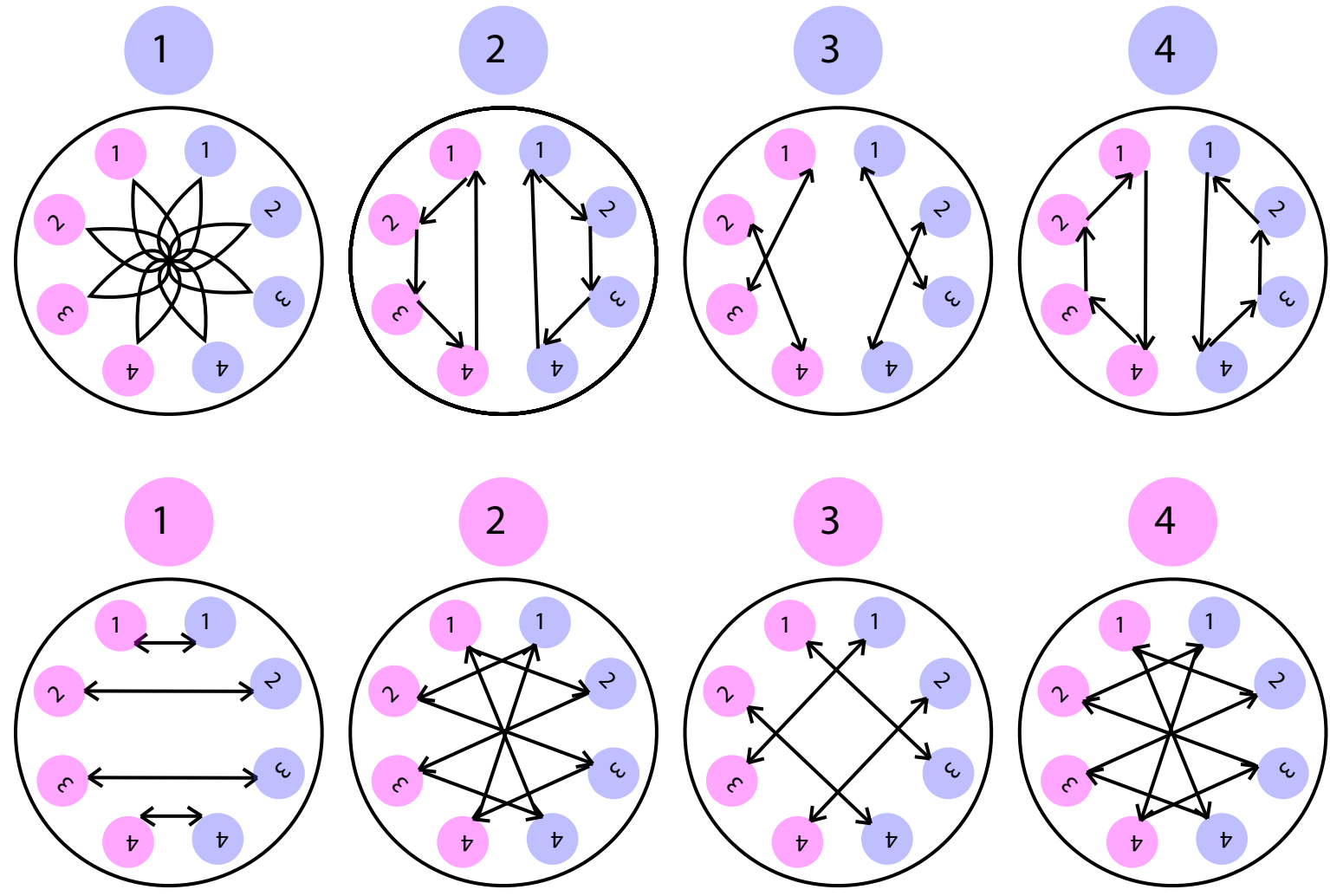
 = Positive  
 = Negative

1,2,3,4 = Positions



● = Positive  
 ● = Negative  
 1,2,3,4 = Positions

	1	2	3	4	4	3	2	1
1	1	2	3	4	4	3	2	1
2	2	3	4	1	1	4	3	2
3	3	4	1	2	2	1	4	3
4	4	1	2	3	3	2	1	4
4	4	1	2	3	3	2	1	4
3	3	4	1	2	2	1	4	3
2	2	3	4	1	1	4	3	2
1	1	2	3	4	4	3	2	1



● = Positive  
 ● = Negative

1,2,3,4 = Positions