

## Answer Key

1a. 20

1b. 120

1c. 5

2a. 15,600

2b. 14,658,134,400

2c. 740

3.  $P(3, 2) + P(4, 2) = 6 + 12 = 18$

4.  $P(12, 3) + P(12, 3) + P(6, 4) = 1,320 + 1,320 + 360 = 3,000$

	1	2	3	4	5	6
1	1-1	1-2	1-3	1-4	1-5	1-6
2	2-1	2-2	2-3	2-4	2-5	2-6
5a. 3	3-1	3-2	3-3	3-4	3-5	3-6
4	4-1	4-2	4-3	4-4	4-5	4-6
5	5-1	5-2	5-3	5-4	5-5	5-6
6	6-1	6-2	6-3	6-4	6-5	6-6

5b. 36

5c. 11: (1,6), (2,6), (3,6), (4,6), (5,6), (6,6), (6,5), (6,4), (6,3), (6,2), (6,1)

5d.  $36 - 11 = 25$

6a.  $32 + 14 - 8 = 38$

6b.  $107 - 38 = 69$

7a. 26

7b. 26

7c. 26

7b.  $26 \cdot 26 \cdot 26 = 17,576$