

List the outcomes of a compound event

NAME	DATE	SCORE
		/ 10

1

A coin is flipped 3 times, and each flip is H or T. Which list shows the whole sample space?

☐ HHH, HTH, HTT, THH, THT, TTH, TTT
 ☐ HHH, HHT, HTH, HTT, THH, THT, TTH, TTT
 ☐ HH, HT, TH, TT
 ☐ HHH, HHT, HTT, TTT

2

A card is drawn from 4 cards, a number cube is rolled and a coin is flipped. How many outcomes are in the sample space?

3

A card is drawn from 2 cards numbered 1 and 2, and then a spinner with red, blue and green parts (R, B or G) is spun. Write the whole sample space as an organized list, a table or a tree diagram.

4

A coin is flipped (H or T), and then a card is drawn from 4 cards numbered 1, 2, 3 and 4. Which list shows the whole sample space?

☐ H1, H2, H3, H4, T1, T2, T3, T4
 ☐ H1, H2, H3, T1, T2, T3, T4
 ☐ H1, H2, H3, H4
 ☐ H, T, 1, 2, 3, 4

- 5** A spinner with 5 equal parts is spun and a card is drawn from 5 cards. How many outcomes are in the sample space?

- 6** A coin is flipped (H or T), and then a card is drawn from 4 cards numbered 1, 2, 3 and 4. Write the whole sample space as an organized list, a table or a tree diagram.

- 7** A spinner with red, blue and green parts (R, B or G) is spun, and then a coin is flipped (H or T). Which list shows the whole sample space?

☐ R, B, G, H, T ☐ RH, RT ☐ RH, BH, BT, GH, GT ☐ RH, RT, BH, BT, GH, GT

- 8** A card is drawn from 4 cards and a spinner with 3 equal parts is spun. How many outcomes are in the sample space?

- 9** A coin is flipped (H or T), and then a spinner with red, blue and green parts (R, B or G) is spun. Which list shows the whole sample space?

☐ HR, HG, TR, TB, TG ☐ HR, HB, HG, TR, TB, TG ☐ H, T, R, B, G ☐ HR, HB, HG

- 10** A coin is flipped (H or T), and then a card is drawn from 3 cards numbered 1, 2 and 3. Which list shows the whole sample space?

☐ H1, H2, H3 ☐ H1, H2, H3, T1, T2, T3 ☐ H, T, 1, 2, 3 ☐ H1, H3, T1, T2, T3

List the outcomes of a compound event

1	HHH, HHT, HTH, HTT, THH, THT, TTH, TTT	2	48
4	H1, H2, H3, H4, T1, T2, T3, T4	5	25
7	RH, RT, BH, BT, GH, GT	8	12
9	HR, HB, HG, TR, TB, TG	10	H1, H2, H3, T1, T2, T3
3	A written explanation		

A model answer: 1R, 1B, 1G, 2R, 2B, 2G: 6 outcomes.

What counts as right: Counts as right if all 6 outcomes are shown, each once: 1R, 1B, 1G, 2R, 2B, 2G. An organized list, a table with 2 rows and 3 columns, or a tree with 2 branches and 3 more on each counts. An outcome missing or repeated, or only the single results 1, 2, R, B, G listed side by side, does not count.

6	A written explanation		
A model answer:	H1, H2, H3, H4, T1, T2, T3, T4: 8 outcomes.		
What counts as right:	Counts as right if all 8 outcomes are shown, each once: H1, H2, H3, H4, T1, T2, T3, T4. An organized list, a table with 2 rows and 4 columns, or a tree with 2 branches and 4 more on each counts. An outcome missing or repeated, or only the single results H, T, 1, 2, 3, 4 listed side by side, does not count.		