

List the outcomes of a compound event

NAME	DATE	SCORE / 10
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- 1** 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. Which list shows the whole sample space?

☐ 1, 2, R, B, G
 ☐ 1R, 1B, 1G
 ☐ 1R, 1B, 1G, 2R, 2B, 2G
 ☐ 1R, 1B, 2R, 2B, 2G

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

- 3** A spinner with red and blue parts (R or B) is spun, and then a card is drawn from 3 cards numbered 1, 2 and 3. 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, T4
 ☐ H1, H2, H3, H4
 ☐ H, T, 1, 2, 3, 4
 ☐ H1, H2, H3, H4, T1, T2, T3, T4

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

- 6** Spinner A has red and blue parts (R or B). Spinner B has red, blue and green parts (R, B or G). Spinner A is spun, and then spinner B. Write the whole sample space as an organized list, a table or a tree diagram.

- 7** 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

- 8** A spinner with 5 equal parts is spun and a number cube is rolled. How many outcomes are in the sample space?

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

☐ R, B, H, T
 ☐ RH, RT, BT
 ☐ RH, RT
 ☐ RH, RT, BH, BT

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A spinner with red and blue parts (R or B) is spun, and then a card is drawn from 3 cards numbered 1, 2 and 3. Which list shows the whole sample space?

- ☐ R, B, 1, 2, 3 ☐ R1, R2, R3, B1, B2, B3 ☐ R1, R2, R3 ☐ R1, R2, R3, B1, B3

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1	1R, 1B, 1G, 2R, 2B, 2G	2	9
4	H1, H2, H3, H4, T1, T2, T3, T4	5	12
7	HHH, HHT, HTH, HTT, THH, THT, TTH, TTT	8	30
9	RH, RT, BH, BT	10	R1, R2, R3, B1, B2, B3
3	A written explanation		

A model answer: R1, R2, R3, B1, B2, B3: 6 outcomes.

What counts as right: Counts as right if all 6 outcomes are shown, each once: R1, R2, R3, B1, B2, B3. 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 R, B, 1, 2, 3 listed side by side, does not count.

6	A written explanation		
A model answer:	RR, RB, RG, BR, BB, BG: 6 outcomes.		
What counts as right:	Counts as right if all 6 outcomes are shown, each once: RR, RB, RG, BR, BB, BG. 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 R, B, R, B, G listed side by side, does not count.		