

**A** Two coins are flipped.

|   |    |    |
|---|----|----|
|   | H  | T  |
| H | HH | HT |
| T |    |    |

P (Tails & Tails) = 0.25

**B** Two coins are flipped.

|   |   |   |
|---|---|---|
|   | H | T |
| H |   |   |
| T |   |   |

P (At least 1 Tails) = 0.5

**C** A coin is flipped & a dice is thrown.

|   |      |   |   |   |   |   |
|---|------|---|---|---|---|---|
|   | 1    | 2 | 3 | 4 | 5 | 6 |
| H | H, 1 |   |   |   |   |   |
| T | T, 1 |   |   |   |   |   |

P (Tails & Odd) = 1/4

**D** Two 4-sided spinners are spun & their scores added.

|   |   |   |   |   |
|---|---|---|---|---|
|   | 1 | 2 | 3 | 4 |
| 1 | 2 |   |   |   |
| 2 | 3 |   |   |   |
| 3 |   |   |   |   |
| 4 |   |   |   |   |

P (6) = 4/16

**E** Two 4-sided spinners are spun & their scores multiplied.

|   |   |   |   |   |
|---|---|---|---|---|
|   | 1 | 2 | 3 | 4 |
| 1 | 1 | 2 | 3 | 4 |
| 2 |   |   |   |   |
| 3 |   |   |   |   |
| 4 |   |   |   |   |

P (More than 4) = 11/16

**F** A 6-sided dice and a 4-sided spinner: scores added.

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
|   | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 2 | 3 |   |   |   |   |
| 2 | 3 | 4 |   |   |   |   |
| 3 |   |   |   |   |   |   |
| 4 |   |   |   |   |   |   |

P (7 or less) = 0.75

**G** A 3-sided & a 8-sided spinner are spun & their scores added.

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | 2 | 3 |   |   |   |   |   |   |
| 2 |   |   |   |   |   |   |   |   |
| 3 |   |   |   |   |   |   |   |   |

P (4 or 9) = 1/4

**H** 2 cube dice are rolled & their scores added.

P (Less than 6) = 5/12

**I** A 6-sided dice & a tetrahedron dice are rolled & their scores are multiplied.

P (More than 8) = 0.5

**J** Two 5-sided spinners: scores added.

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|   | 1 | 2 | 3 | 4 | 5 |
| 1 | 2 | 3 |   |   |   |
| 2 | 3 | 4 |   |   |   |
| 3 |   |   |   |   |   |
| 4 |   |   |   |   |   |
| 5 |   |   |   |   |   |

P (3 or 6) = 0.15

**K** Two 5-sided spinners: scores multiplied.

|   |   |    |    |    |    |
|---|---|----|----|----|----|
|   | 1 | 2  | 3  | 4  | 5  |
| 1 |   |    |    |    | 5  |
| 2 |   |    |    |    | 10 |
| 3 |   |    |    |    | 15 |
| 4 |   |    |    |    | 20 |
| 5 | 5 | 10 | 15 | 20 | 25 |

P (Less than 3 or exactly 20) = 0.2

**L** An octahedron & a cube dice are rolled & their scores are added.


P (9 or more) = 7/16

TRUE or FALSE?

Cut out all 12 cards. Complete the Sample Space Diagrams and sort them into two piles: TRUE & FALSE


**A** Two coins are flipped.

|   |    |    |
|---|----|----|
|   | H  | T  |
| H | HH | HT |
| T | HT | TT |

P (Tails & Tails) = 0.25 


**B** Two coins are flipped.


|   |    |    |
|---|----|----|
|   | H  | T  |
| H | HH | HT |
| T | HT | TT |

P (At least 1 Tails) = 0.5 

**C** A coin is flipped & a dice is thrown.


|   |      |      |      |      |      |      |
|---|------|------|------|------|------|------|
|   | 1    | 2    | 3    | 4    | 5    | 6    |
| H | H, 1 | H, 2 | H, 3 | H, 4 | H, 5 | H, 6 |
| T | T, 1 | T, 2 | T, 3 | T, 4 | T, 5 | T, 6 |

P (Tails & Odd) = 1/4 

**D** Two 4-sided spinners are spun & their scores added. 


|   |   |   |   |   |
|---|---|---|---|---|
|   | 1 | 2 | 3 | 4 |
| 1 | 2 | 3 | 4 | 5 |
| 2 | 3 | 4 | 5 | 6 |
| 3 | 4 | 5 | 6 | 7 |
| 4 | 5 | 6 | 7 | 8 |

P (6) = 4/16

**E** Two 4-sided spinners are spun & their scores multiplied. 


|   |   |   |    |    |
|---|---|---|----|----|
|   | 1 | 2 | 3  | 4  |
| 1 | 1 | 2 | 3  | 4  |
| 2 | 2 | 4 | 6  | 8  |
| 3 | 3 | 6 | 9  | 12 |
| 4 | 4 | 8 | 12 | 16 |

P (More than 4) = 11/16

**F** A 6-sided dice and a 4-sided spinner scores added. 

|   |   |   |   |   |   |    |
|---|---|---|---|---|---|----|
|   | 1 | 2 | 3 | 4 | 5 | 6  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7  |
| 2 | 3 | 4 | 5 | 6 | 7 | 8  |
| 3 | 4 | 5 | 6 | 7 | 8 | 9  |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |


P (7 or less) = 0.75

**G** A 3-sided & a 8-sided spinner are spun & their scores added. 


|   |   |   |   |   |   |   |    |    |
|---|---|---|---|---|---|---|----|----|
|   | 1 | 2 | 3 | 4 | 5 | 6 | 7  | 8  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8  | 9  |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9  | 10 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |


P (4 or 9) = 1/4

**H** 2 cube dice are rolled & their scores added.

P (Less than 6) = 5/12 


**I** A 6-sided dice & a tetrahedron dice are rolled & their scores are multiplied.

P (More than 8) = 0.5 

**J** Two 5-sided spinners: scores added. 

|   |   |   |   |   |    |
|---|---|---|---|---|----|
|   | 1 | 2 | 3 | 4 | 5  |
| 1 | 2 | 3 | 4 | 5 | 6  |
| 2 | 3 | 4 | 5 | 6 | 7  |
| 3 | 4 | 5 | 6 | 7 | 8  |
| 4 | 5 | 6 | 7 | 8 | 9  |
| 5 | 6 | 7 | 8 | 9 | 10 |

P (3 or 6) = 0.15

**K** Two 5-sided spinners: scores multiplied. 

|   |   |    |    |    |    |
|---|---|----|----|----|----|
|   | 1 | 2  | 3  | 4  | 5  |
| 1 | 1 | 2  | 3  | 4  | 5  |
| 2 | 2 | 4  | 6  | 8  | 10 |
| 3 | 3 | 6  | 9  | 12 | 15 |
| 4 | 4 | 8  | 12 | 16 | 20 |
| 5 | 5 | 10 | 15 | 20 | 25 |

P (Less than 3 or exactly 20) = 0.2

**L** An octahedron & a cube dice are rolled & their scores are added.

P (9 or more) = 7/16 