

## Sample Space

List the sample space for the following.

- 1 A coin.

Sample Space is {\_\_\_\_\_}

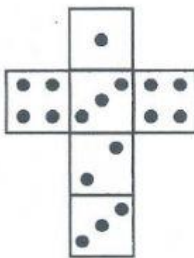
- 2 A die.

Sample Space is {\_\_\_\_\_}

- 3 The spinner shown.

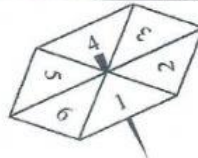


- 4 The dice with nets shown.



## Theoretical Probability

The spinner below is numbered 1 through 6. If the spinner is spun once find the probability of spinning:



- 14 An even number

- 15 A number less than 5

- 16 Spinning a factor of 8

- 17 Not spinning a 2

A lottery has 60 tickets, numbered 1 to 60. If a single ticket is selected, calculate the probability that the selected ticket will be a number that

- 21 Is less than 20

- 22 Is a single digit number

- 23 Is a multiple of 7

- 24 Has at least one 5 as a digit



Find the probability for these events.

A hat contains 3 blue marbles, 7 red and 6 green marbles. Find the probability (simplify) of selecting a

- 10 Green marble  $P(G) =$

- 11 Blue marble

- 12 Black marble

- 13 Red or blue marble

Attempting to decide on a date for a party, Don throws a dart at his calendar, which is open at the month of April as shown below.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

If Don hits one of the numbered squares, what is the probability that the party will be

- 36 on a weekday?

- 37 on the weekend?

- 38 on a Saturday?

- 39 during the first week of April?

- 40 on April 9?