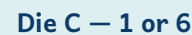
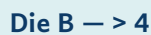


- 1 Two dice give $6 \times 6 = 36$ total outcomes.
- 2 Favourable pairs that sum to 7 are (1,6), (2,5), (3,4), (4,3), (5,2) and (6,1) so there are 6 favourable outcomes.
- 3 $P(\text{sum of 7}) = 6/36$ which simplifies to $1/6$.

Slice and shade each circle to match the probability fraction named.



1. On the first 8-sector circle shade 1 sector to show $P(\text{one segment on an 8-segment wheel})$
2. On the second 8-sector circle shade 4 sectors to show $P(\text{even number on an 8-segment wheel})$
3. On the third 8-sector circle shade 3 sectors to show $P(\text{rolling less than 4 on a die rewritten over 8})$

- 1 You roll a six-sided die in a dice race game. What is the probability of rolling an even number?
- 2 A toy prize wheel is split into four equal segments. What is the probability it stops on one chosen segment?
- 3 With two dice in a table-top game, what is the probability of rolling a sum of 2?

Always, sometimes or never true? Write A, S or N.

- a. The probability of an event equals the number of favourable outcomes over the total number of outcomes
- b. P(rolling a 4 on a six-sided die) is $1/6$
- c. P(sum of 2 with two dice) equals P(sum of 7 with two dice)
- d. The probability of one segment on a four-segment wheel is $1/2$