

chapter

8

Probability

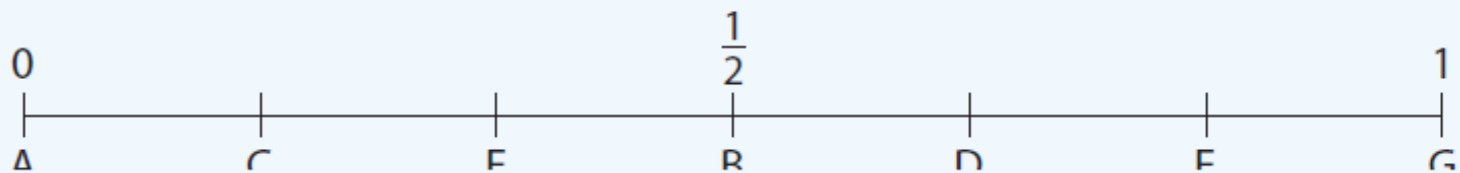
Test yourself 8

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1. Write **impossible, unlikely, evens, likely** or **certain** for each of these:

- (i) A rabbit will be driving the next bus you see.
- (ii) Someone in your class will be absent tomorrow.
- (iii) You will get a head when you toss a coin.
- (iv) You will have only one birthday next year.
- (v) It will not rain in your area in the next week.

2.



From the probability scale above, which letter best describes the following:

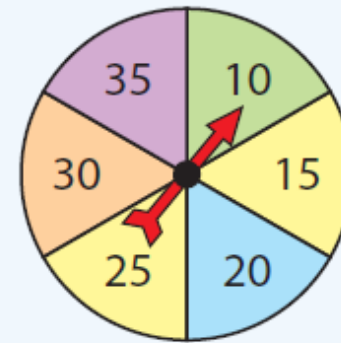
- (i) impossible (ii) even chance (iii) very likely (iv) certain
(v) very unlikely (vi) likely (vii) unlikely?

3. Barry spun this spinner.

Copy and finish this list of possible outcomes.

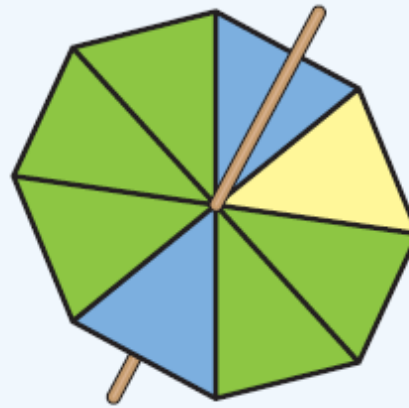
10, 15, __, __, __, __

Do each of these outcomes have the same chance of happening? Explain.

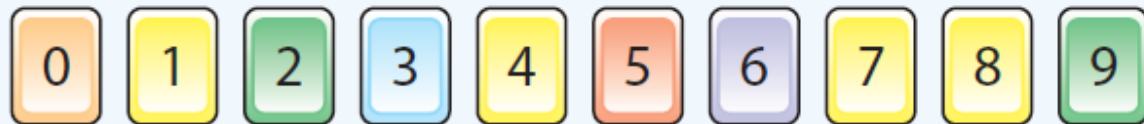


4. Write down the probability that this spinner will land on these colours:

- (i) yellow
- (ii) blue
- (iii) green
- (iv) either blue or green
- (v) not blue.



5. A card game uses these ten digits.



A card is chosen at random.

- (i) How many possible outcomes are there?
- (ii) What is the probability that the card chosen has an odd number?
- (iii) What is the probability that the card chosen has a 6 or greater on it?
- (iv) What is the probability that the card chosen is yellow?
- (v) What is the probability that the card chosen is yellow and has an even number on it?
- (vi) What is the probability that the card is yellow or green?

6. This table shows the colours of 100 tickets sold in a raffle.

All the tickets were put into a hat.

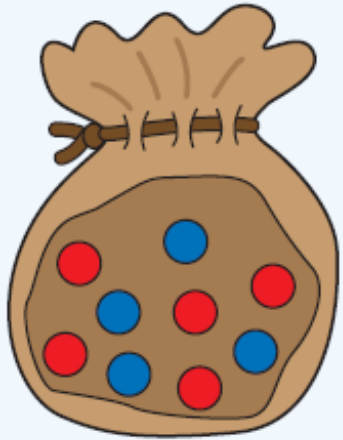
One ticket was pulled out without looking.

Find the probability that the colour of the ticket is

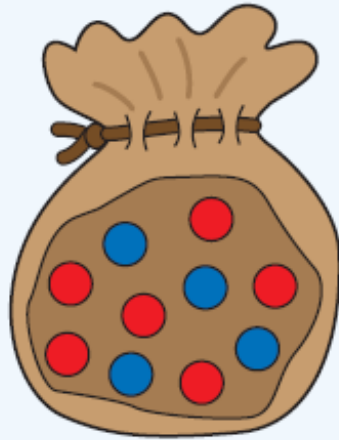
- (i) yellow
- (ii) pink
- (iii) yellow or blue
- (iv) not green.

green	20
pink	60
blue	5
yellow	15
Total	100

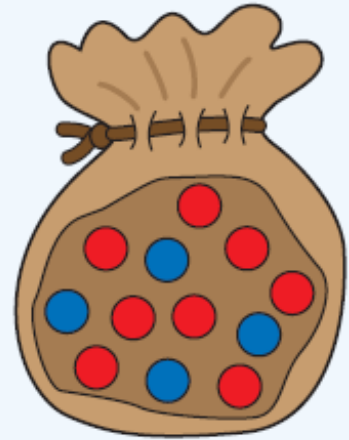
7. For each of the bags shown below,
- (i) find the probability of choosing a red bead
 - (ii) find the probability of choosing a blue bead.



A

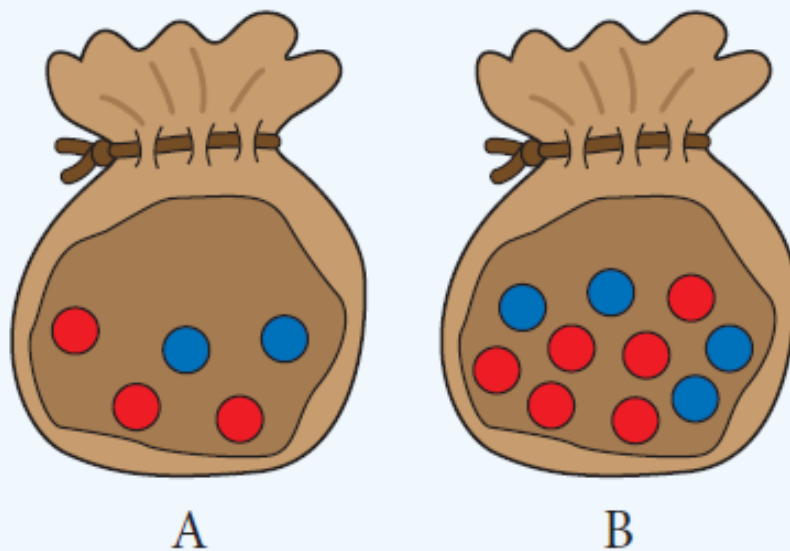


B



C

8. In a game a person is given a choice of two bags to take a bead from. The person wins if they choose a red bead.



Is it better to take a bead from bag A or bag B, or doesn't it matter?
Give your reasons.

9. A letter is chosen at random from the word MATHEMATICS.
- (i) What is the probability that the letter is M?
 - (ii) What is the probability that the letter is either A, E or I?
 - (iii) What is the probability that the letter is not T?