

Probability

Videos 244, 245, 250 on Corbettmaths

Examples

Workout



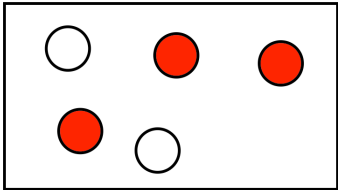
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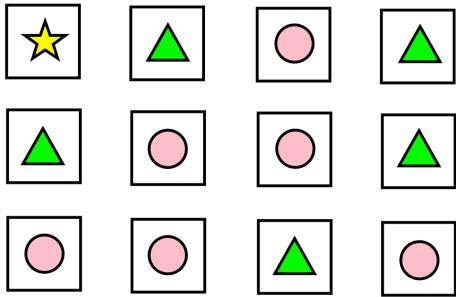
Question 1: Theo has 3 red sweets and 2 white sweets.
He picks a sweet at random.

- (a) Write down the probability that Theo picks a red sweet.
- (b) Write down the probability that Theo picks a white sweet.



Question 2: Leah has 12 cards, each with a shape on it.
She takes a card at random.

- (a) What is the probability that Leah takes a card with a star on it?
- (b) What is the probability that Leah takes a card with a triangle on it?
- (c) What is the probability that Leah takes a card with a circle on it?



Question 3: Ralph has 9 cards, each with a number on it.



He picks a card at random.
Write down the probability that the chosen card is

- (a) the number 8
- (b) an even number
- (c) a number less than 7
- (d) a multiple of 4
- (e) a square number
- (f) a prime number

Question 4: There are 12 red roses, 5 yellow roses and 3 white roses in a vase.
Felix takes a rose, at random, from the vase.

- (a) Write down the probability that he takes a white rose.
- (b) Write down the probability that he takes a red **or** a white rose.
- (c) Write down the probability that Felix takes a rose that is **not** red.

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Question 5: Leon throws a biased coin.
The probability of getting tails is 0.4
Work out the probability of getting heads.



Question 6: Edith plants a daffodil bulb.
The probability that the bulb will grow is 0.8
What is the probability that the bulb will **not** grow?

Question 7: Wycombe Wanderers play a match of football.
The probability that they win the match is 0.28
The probability that they draw the match is 0.55
Work out the probability that they lose the match.

Question 8: Evelyn has 80 pens in a drawer.
15 pens are black and the other pens are blue.

Evelyn picks a pen at random from the drawer.

- (a) What is the probability that Evelyn picks a black pen?
(b) What is the probability that Evelyn picks a blue pen?



Question 9: There are 20 counters in a bag.

2 of the counters are white.
1 of the counters is pink.
4 of the counters are black.
The rest of the counters are purple.

Carter takes a counter at random from the bag.

Show that the probability that the counter is white or purple is $\frac{3}{4}$

Question 10: There are only pink, yellow, green and blue counters in a bag.
The table shows the probability that a counter taken at random from the bag will be pink, green or blue.

Colour	Pink	Yellow	Green	Blue
Probability	0.5		0.1	0.2

- (a) Work out the probability that the counter taken is yellow

There are 40 counters in the bag.

- (b) Work out the number of blue counters in the bag.