

- 21 The probability of event  $A$  is 0.4 and that of event  $B$  is 0.4. What is the probability of either  $A$  or  $B$  occurring if  $A$  and  $B$  are independent? Give your answer as a decimal (not a percentage) to 2 decimal places. Note: you will need to calculate  $P(A \text{ and } B)$  first.

Answer:

0.64

- 22 An experiment consists of selling a chocolate bar to a customer. The possible outcomes are

- Mars
- Kit Kat
- Picnic
- Yorkie
- Crunchie

If the event  $A$  is defined as selling a Yorkie, indicate one of the outcomes which is in the complement of  $A$ ?

Choose one answer.

- a. Mars
- b. Kit Kat
- c. Picnic
- d. Yorkie
- e. Crunchie

- 23 The probability of event  $A$  is 0.5 and that of  $B$  is 0.1. What is the probability of either  $A$  or  $B$  occurring if they are mutually exclusive? Give your answer correct to one decimal place.

Answer:

0.6

- 24 The probability of a certain event is 1 and that of an impossible event is 0

- 25 The probability of event  $A$  is 0.3 and that of event  $B$  is 0.9. What is the probability of either  $A$  or  $B$  occurring if  $A$  and  $B$  are independent? Give your answer as a decimal (not a percentage) to 2 decimal places. Note: you will need to calculate  $P(A \text{ and } B)$  first.

Answer: