**Combined Independent Events**

(a) Jasmine throws a fair coin twice. Find the probability that it lands on heads both times.

(b) Arthur rolls a fair dice twice. Find the probability that he rolls a $6$ both times.

(c) Lucy throws a fair coin once then rolls a fair dice one. Find the probability that the coin lands on tails and she rolls a $5$ on the dice.

(d) Mo rolls a fair dice twice. Find the probability that it lands on an odd number both times.

(a) The probability that a biased coin lands on heads is $\frac{2}{3}$ . Fatima throws the coin twice. Find the probability that it lands on heads both times.

(b) The probability that a biased coin lands on tails is $0.75$. Minahil throws the coin twice. Find the probability that it lands on heads on the first throw and tails on the second throw.

(a) Oscar rolls a fair dice three times in a row. Find the probability that the dice lands on a $4$ on all three rolls.

(b) The probability that a biased coin lands on heads is $0.6 $. Alex throws the biased coin three times. Find the probability that the coin lands on heads for the first two throws and tails for the third throw.

(a) Dumi throws a biased coin twice. The probability that it lands on heads twice is $\frac{49}{100}$. Find the probability that it lands on heads if the coin is thrown once.

(b) Geraint throws a biased coin three times. The probability that it lands on heads all three times is $\frac{8}{125}$ . Find the probability that it lands on tails all three times.

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