



PROBABILITY

EQUALLY LIKELY OUTCOMES

NO CALCULATOR

Ref: G512. **1F1**

<p>A1 An ordinary coin is tossed. What is the probability that the coin lands on heads?</p>	<p>A2 An ordinary dice is thrown. What is the probability that the dice lands on a prime number?</p>	<p>A4 Amita picks a card from an ordinary pack of 52 playing cards. What is the probability that she picks a King?</p>
<p>B1 A class consists of 18 girls and 15 boys. One of the students is selected at random. Calculate the probability that the student selected is a boy.</p>	<p>B2 A fish tank contains 8 guppies, 5 platies and 7 mollies. One of the fish is selected at random. Calculate the probability that the fish selected is a guppy.</p>	<p>B4 Jack has cans of soup which don't have labels. He knows that 3 cans are tomato, 4 cans are mushroom and 7 cans are chicken flavour. If he picks a can at random, what is the probability that the can chosen is not tomato?</p>
<p>C1 A bag contains 3 red counters and 2 blue counters. One of the counters is selected at random. Find the probability that the counter selected is blue.</p>	<p>C2 A bag contains 2 red counters, 5 green counters and 4 blue counters. One of the counters is selected at random. Find the probability that the counter selected is either red or blue.</p>	<p>C4 A bag contains 4 red counters, 7 blue counters and 5 green counters. One of the counters is selected at random. Find the probability that the counter selected is not blue.</p>
<p>D1 A letter is selected at random from the set {M, A, T, H, E, M, A, T, I, C, S}. Find the probability that the letter 'M' is selected.</p>	<p>D2 A letter is selected at random from the set {P, R, O, B, A, B, I, L, I, T, Y}. Find the probability that a vowel is selected.</p>	<p>D4 Each month of the year is written on a card and placed in a bag. One of the cards is selected at random. Calculate the probability that the month written on the card has 30 days.</p>



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<p>A1 An ordinary coin is tossed. What is the probability that the coin lands on heads?</p> $\frac{1}{2}$	<p>A2 An ordinary dice is thrown. What is the probability that the dice lands on a prime number?</p> <p>(The Prime scores are 2, 3 and 5)</p> $\frac{3}{6} = \frac{1}{2}$	<p>A4 Amita picks a card from an ordinary pack of 52 playing cards. What is the probability that she picks a King?</p> $\frac{4}{52} = \frac{1}{13}$
<p>B1 A class consists of 18 girls and 15 boys. One of the students is selected at random. Calculate the probability that the student selected is a boy.</p> $\frac{15}{33} = \frac{5}{11}$	<p>B2 A fish tank contains 8 guppies, 5 platies and 7 mollies. One of the fish is selected at random. Calculate the probability that the fish selected is a guppy.</p> $\frac{8}{20} = \frac{2}{5}$	<p>B4 Jack has cans of soup which don't have labels. He knows that 3 cans are tomato, 4 cans are mushroom and 7 cans are chicken flavour. If he picks a can at random, what is the probability that the can chosen is not tomato?</p> $\frac{11}{14}$
<p>C1 A bag contains 3 red counters and 2 blue counters. One of the counters is selected at random. Find the probability that the counter selected is blue.</p> $\frac{2}{5}$	<p>C2 A bag contains 2 red counters, 5 green counters and 4 blue counters. One of the counters is selected at random. Find the probability that the counter selected is either red or blue.</p> $\frac{2+4}{11} = \frac{6}{11}$	<p>C4 A bag contains 4 red counters, 7 blue counters and 5 green counters. One of the counters is selected at random. Find the probability that the counter selected is not blue.</p> $\frac{9}{16}$
<p>D1 A letter is selected at random from the set {M, A, T, H, E, M, A, T, I, C, S}. Find the probability that the letter 'M' is selected.</p> $\frac{2}{11}$	<p>D2 A letter is selected at random from the set {P, R, O, B, A, B, I, L, I, T, Y}. Find the probability that a vowel is selected.</p> $\frac{4}{11}$	<p>D4 Each month of the year is written on a card and placed in a bag. One of the cards is selected at random. Calculate the probability that the month written on the card has 30 days. (Apr, Jun, Sep, Nov)</p> $\frac{4}{12} = \frac{1}{3}$