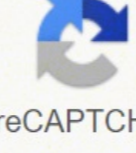


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Probability (Tree Diagrams)

Tree diagrams can be used to help solve problems involving both dependent and independent events.

The following situation can be represented by a tree diagram.

Peter has ten coloured cubes in a bag. Three of the cubes are red and 7 are blue. He removes a cube at random from the bag and notes the colour before replacing it. He then chooses a second cube at random. Record the information in a tree diagram.

Venn Diagram Exam Style Questions

A class of 12 students all had a packed lunch.

- 12 had an apple in their lunch box
- 10 had a banana
- 5 had an apple, but not a banana.

Complete the Venn diagram above

- How many students like Rugby and Football?
- How many students only like Football?
- How many students do not like Football?
- How many students do not like Rugby?
- How many students were in the survey?

Solving Probability Problems using a Venn Diagram

Question 1

At a cinema 36 people bought sweet popcorn (S), 32 bought a drink (D), 11 bought both and 10 neither. Complete the Venn Diagram below and answer the following questions.

What is the probability the customer:

- Has sweet popcorn P(S)
- Has both sweet popcorn and a drink P(S∩D)
- Has sweet popcorn or a drink P(S∪D)

Total = 25+11+21+10 = 67

a) $P(S) = \frac{36}{67}$ b) $P(S∩D) = \frac{11}{67}$ c) $P(S∪D) = \frac{57}{67}$

Timester Challenge

Probability Trees - Independent Events

Haseeb is going to play a tennis match and a squash match.

The probability he wins the tennis match is $\frac{7}{10}$.

The probability he wins the squash match is $\frac{3}{5}$.

Complete the probability tree diagram.

Calculate the probability that Haseeb will lose both matches.

Bronze ★

Jo walks to school everyday.

The probability Jo is late on a Monday is 0.4.

The probability Jo is late on a Tuesday is 0.2.

Complete the probability tree diagram.

Work out the probability that Jo is late on only one of the days.

Silver ★

There are 4 black pens, 4 blue pens and 2 red pens in a pack.

Julia takes at random a pen from the pack notes the colour and puts it back in the pack.

Work out the probability she selects two pens the same colour.

Gold ★

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Building a Venn Diagram

1. The diagram below shows the number of people who...

2. The diagram below shows the number of people who...

3. The diagram below shows the number of people who...

4. The diagram below shows the number of people who...

5. The diagram below shows the number of people who...

6. The diagram below shows the number of people who...

Conditional probability venn diagram calculator. Conditional probability from venn diagram. Conditional probability worksheets with answers pdf.

If you have any issues or would like to get in touch, please email us at info@skoolmaths.com. Thank you. In this lesson, we will learn how to work out conditional probability from various Venn Diagrams. Determine the parts of the Venn diagram that are in the subset. What is the probability that this species is venomous? The universal set $\xi = \{ \text{Quadrilaterals} \}$. The Venn diagram shows the frequencies of quadrilaterals that belong to the two sets $A = \{ \text{rotational symmetry} \}$, and $B = \{ \text{at least 1 line of symmetry} \}$. (b) Calculate the probability of $P(\text{cap} \{ E \} \text{ given } P)$. Write the probability as a fraction, and simplify. In order to calculate probabilities from a Venn diagram: Determine the parts of the Venn diagram that are in the subset. Calculate the frequency of the subset. Calculate the total frequency of the larger set. Write the probability as a fraction, and simplify. You must be aware of all of the set notation and symbols used for Venn diagrams. The Venn diagram shows students that are studying a Science subject. The frequency of values in the subset 'G' is 41+35=76. Example: We have the numbers $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11\}$. The total frequency is therefore: $2+1+3+3=9$. The total number of people asked is $8+20+7=35$. $\frac{7}{35} = \frac{1}{5}$. $P(A \cup B) = \frac{7}{9}$. We welcome your feedback, comments and questions about this site or page. The solution is therefore: $P(\text{Odd and Prime}) = P(O \cap P) = \frac{3}{10}$. These will go in the part of section A that doesn't intersect with B. 4. Write the probability as a fraction, and simplify. The probability is not a fraction The probability is written as a total frequency instead of a fraction of the larger set. It can also be used for practice and revision by learners at home. Please read our Cookies Policy for information on how we use cookies and how to manage or change your cookie settings. Accept Privacy & Cookies Policy The total number of people asked is $22+58+96+64=240$. The probability of choosing someone at random who likes comedy films is therefore $\frac{140}{240} = \frac{7}{12}$. What is the probability of a student studying Biology if they are also studying Chemistry? Probability Venn Diagram Example In this tutorial I show you how to construct a Venn diagram, work out probabilities and a conditional probability. The results are displayed in a three circle Venn diagram below. There's some crossover here: $\{3, 4, 5, 6, 7, 8, 11\}$ are contained in both, which means they go in the intersection. The fraction is written out of the frequency of the universal set rather than the subset. The two sets represent whether the animal is $V = \{ \text{venomous} \}$ or $P = \{ \text{poisonous} \}$. Calculate $P(G \cap H)$. The probability of choosing someone at random who likes ham and cheese toasties is therefore $\frac{96}{240} = \frac{2}{5}$. $P(S \cup (H \cap G)) = \frac{200}{288} = \frac{25}{36}$. Write the probability as a fraction, and simplify. Find out more about our GCSE maths revision programme. The probability of buying a horse that has at least one of the three requirements is therefore $\frac{15}{32}$. The result is the Venn diagram shown. They want to find out what accessories people wear when the weather turns cold. In this lesson, learners will be able to calculate and interpret conditional probabilities through representation using expected frequencies with Venn diagrams. What is the probability of picking a person at random that enjoys two or more hobbies? The subset of the multiples of 4 that are not a multiple of 5 is the crescent of the left circle: 2. Calculate the frequency of the subset. (5 marks) (a) $178 + 132 + 654 = 964$ (1) (b) $P(\text{cap} \{ E \} \text{ given } \{ P \}) = \frac{P(\text{cap} \{ E \} \cap \{ P \})}{P(\{ P \})} = \frac{132}{786}$ (1) $P(\text{cap} \{ E \} \cap \{ P \}) = 132$ (1) $P = 654 + 132 = 786$ (1) $P(\text{cap} \{ E \} \text{ given } \{ P \}) = \frac{132}{786}$ (1) 3. The frequency of numbers within this subset is $15+163+148=326$. Conditional Probability Venn Diagrams Venn diagrams are used to determine conditional probabilities. The probability of choosing someone at random who likes ham and cheese toasties is therefore $\frac{15}{35} = \frac{3}{7}$. The subsets within the Venn diagram that contain only one of the three requirements are: The frequency of horses in the subset is $4+6+5=15$. Calculate $P(S \cup (H \cap G))$. The Venn diagram below splits all of the participants into the three sets: $C = \{ \text{Completed} \}$, $F = \{ \text{Fancy Dress} \}$ and $R = \{ \text{Ran all the way} \}$. The questions in the exams will tend to use the word given to show that they are asking for a conditional probability. $15+17+13+9+14+11+18+16=113$ Write the probability as a fraction, and simplify. These will go in the part of circle B that doesn't intersect with A. A Venn diagram is a way of grouping different parts of data known as sets. The Venn diagram shows those studying Biology and Chemistry. Using probability terminology incorrectly The set A is written as A which consists of a list of items or a frequency. The probability of A is written as P(A) and is a fraction. The items that are placed in the intersection are incorrectly added twice as it is assumed that the values are doubled as they belong to two sets. This is usually expressed as a fraction or a decimal. Please submit your feedback or enquiries via our Feedback page. Level 4-5 GCSE Related Topics: More Lessons for A Level Maths Math Worksheets Videos, activities and worksheets that are suitable for A Level Maths. Put the odd numbers in A and prime numbers in B. Calculate the total frequency of the larger set. The frequency of numbers within this subset is $1+3+3=7$. (7 marks) (a) 4608 written in the intersection of Completed and wore Fancy dress (1) 487 written in the intersection of Fancy dress and Ran (1) 902 written in the universal set outside of set C, F, and R (1) (b) $P(\text{cap} \{ F \} \text{ given } \{ C \}) = \frac{P(\text{cap} \{ F \} \cap \{ C \})}{P(\{ C \})} = \frac{4608}{2350}$ (1) $P(\text{cap} \{ F \} \cap \{ C \}) = 4608$ (1) $P(\text{cap} \{ F \}) = 2350 + 487 = 2837$ (1) $P(\text{cap} \{ F \} \text{ given } \{ C \}) = \frac{4608}{2837}$ (1) You have now learned how to: Calculate and interpret conditional probabilities through representation using expected frequencies with Venn diagrams / probability trees Mutually exclusive events Sample space Two way tables Prepare your KS4 students for maths GCSEs success with Third Space Learning. $\frac{348}{163} = \frac{348}{174}$. Venn diagram probability is used to state the probability of or predict the possible outcomes of one or more event(s) occurring. E.g. Let's use the previous Venn diagram for the sets of odd numbers and prime numbers for the integer values in the universal set $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$. The three hobbies were Sewing, Pottery and Painting. 3. Calculate the total frequency of the larger set. Practice Venn diagram probability questions The frequency of people who like comedy films is $52 + 88 = 140$. (b) Calculate $P(\text{cap} \{ F \} \text{ given } \{ R \})$ correct to 2 decimal places. The Asian Tiger snake is the only animal that is both venomous and poisonous. The Venn diagram shows the frequencies of students that belong to the two sets depending on which GCSE they study: $G = \{ \text{Geography} \}$, and $H = \{ \text{History} \}$. There are 5 odd numbers. Name Questions Solutions Venn Diagrams Questions Solutions A typical Venn diagram looks like the picture below. The total frequency is therefore: $12+4+1+3=20$. The formula for calculating a conditional probability is: $P(A \text{ mid } B) = \frac{P(A \cap B)}{P(B)}$. The knowledge of this formula is not required for GCSE. Here we will learn about Venn diagram probability, including how to calculate a probability using a Venn diagram. $H \cap C$ is the intersection of H and C (the overlapping section): The frequency of people who like ham and cheese fillings is 96. If we want to calculate the probability of a prime number, given that the number is odd, we need to know the frequency of numbers that are prime and odd (3), out of the total number of odd numbers (5). The larger set is the universal set. We want all the frequencies in the group S, or those in the intersection of H and G: Calculate the frequency of the subset. Step 2: Numbers that are odd but aren't prime: 1 and 9. The total number of horses is $3+4+3+6+2+5+4+5=32$. The probability of selecting a number from the universal set that is odd, and prime, is 3 out of the total number of values in the universal set, 10. $P(G \cap H) = \frac{163}{174}$. There are also Venn diagram probability worksheets based on Edexcel, AQA and OCR exam questions, along with further guidance on where to go next if you're still stuck. COMING SOON The universal set $\xi = \{ \}$

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