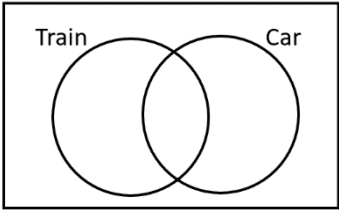
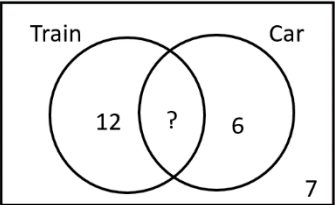
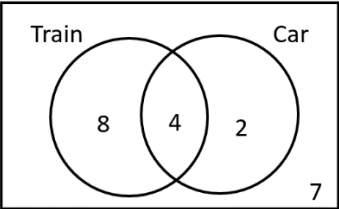
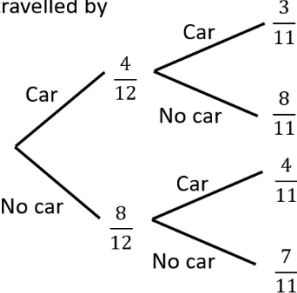


21 people travelled to a meeting.

- 12 used a train.
- 6 used a car.
- 7 did not use a train or a car.
- Some used a train and a car.

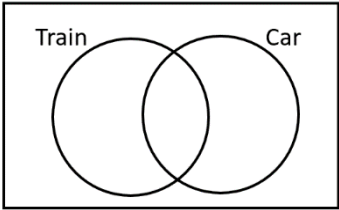
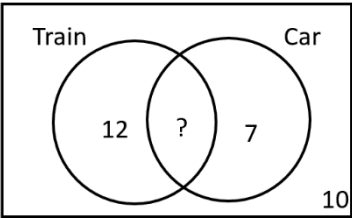
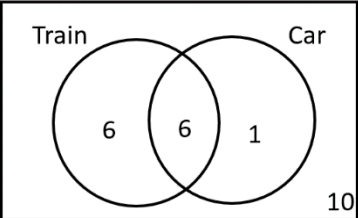
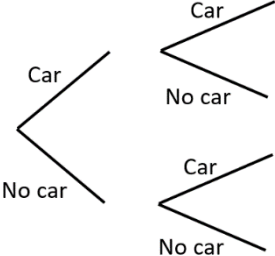
Two people are chosen at random from those who used a train. Find the probability that both these people also used a car.

<p>Draw a Venn Diagram:</p>	
<p>Fill in the information that you know.</p>	
<p>Look at whether your Venn diagram is broken and 'fix it'.</p>	<p>The Venn diagram is broken. The numbers should add up to 21 however they add up to 25. To remove 4 from the Venn diagram without lowering the amount of people choosing train and car we can put a 4 in the intersect and subtract 4 from 12 and 6.</p> 
<p>Use the probabilities created in the Venn diagram to draw a tree diagram.</p>	<p>Of those that travelled by train...</p> 
<p>Use the tree diagram to find the probability you are asked for.</p>	<p>$P(car) \& P(car) =$</p> $\frac{4}{12} \times \frac{3}{11} = \frac{1}{11}$

23 people travelled to a meeting.

- 12 used a train.
- 7 used a car.
- 10 did not use a train or a car.
- Some used a train and a car.

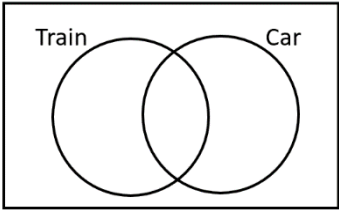
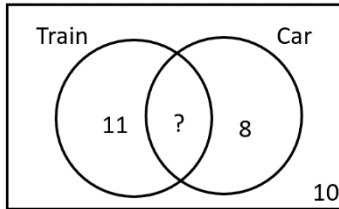
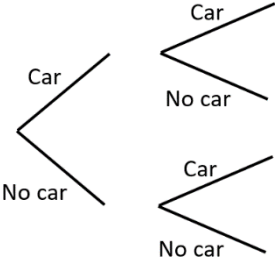
Two people are chosen at random from those who used a train. Find the probability that both these people also used a car.

<p>Draw a Venn Diagram:</p>	
<p>Fill in the information that you know.</p>	
<p>Look at whether your Venn diagram is broken and 'fix it'.</p>	<p>The Venn diagram is broken. The numbers should add up to 23 however they add up to 29. To remove 4 from the Venn diagram without lowering the amount of people choosing train and car we can put a 6 in the intersect and subtract 6 from 12 and 7.</p> 
<p>Use the probabilities created in the Venn diagram to draw a tree diagram.</p>	<p>Of those that travelled by train...</p> 
<p>Use the tree diagram to find the probability you are asked for.</p>	<p>$P(car) \& P(car) =$</p>

25 people travelled to a meeting.

- 11 used a train.
- 8 used a car.
- 10 did not use a train or a car.
- Some used a train and a car.

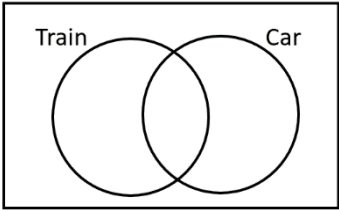
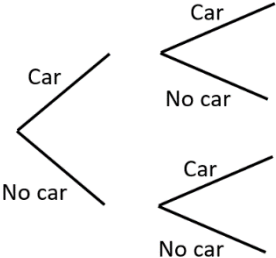
Two people are chosen at random from those who used a train. Find the probability that both these people also used a car.

<p>Draw a Venn Diagram:</p>	
<p>Fill in the information that you know.</p>	
<p>Look at whether your Venn diagram is broken and 'fix it'.</p>	<p>The Venn diagram is broken. The numbers should add up to 25 however they add up to 29.</p>
<p>Use the probabilities created in the Venn diagram to draw a tree diagram.</p>	<p>Of those that travelled by train...</p> 
<p>Use the tree diagram to find the probability you are asked for.</p>	<p>$P(car) \& P(car) =$</p>

27 people travelled to a meeting.

- 12 used a train.
- 10 used a car.
- 11 did not use a train or a car.
- Some used a train and a car.

Two people are chosen at random from those who used a train. Find the probability that both these people also used a car.

<p>Draw a Venn Diagram:</p>	
<p>Fill in the information that you know.</p>	
<p>Look at whether your Venn diagram is broken and 'fix it'.</p>	<p>The Venn diagram is broken.</p>
<p>Use the probabilities created in the Venn diagram to draw a tree diagram.</p>	<p>Of those that travelled by train...</p> 
<p>Use the tree diagram to find the probability you are asked for.</p>	<p>$P(car) \& P(car) =$</p>

24 people travelled to a meeting.

- 12 used a train.
- 10 used a car.
- 8 did not use a train or a car.
- Some used a train and a car.

Two people are chosen at random from those who used a train. Find the probability that both these people also used a car.