

Questions on 9.5 Set, 60 or 9.6
Set? Probability Quiz today...

SM2 - Module 9 SE.pdf - Adobe Acrobat Reader DC

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set

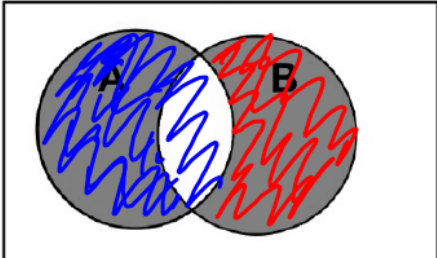
Topic: Addition Rule, interpreting a Venn Diagram

6. Sally was assigned to create a Venn diagram to represent $P(A \text{ or } B)$. Sally first writes $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$, what does this mean? Explain each part.

It means to include everything in the A & B circles ONCE.

7. Sally then creates the following diagram. Sally's Venn diagram is incorrect. Why?

P(A and B) needs to be counted once.



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Notation	2-way Table																
Key: Male = M Female = F Eats Breakfast = E Doesn't Eat Breakfast = D Sample size = 685 $P(E) = \frac{351}{685}$ $P(E M) = \frac{247}{425}$ $P(E \cap M) = \frac{247}{685}$ $P(E F) = \frac{104}{260}$ $P(E \cap F) = \frac{104}{685}$	<table border="1"> <thead> <tr> <th></th> <th>Eats</th> <th>Doesn't</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Male</td> <td>247</td> <td>178</td> <td>425</td> </tr> <tr> <td>Female</td> <td>104</td> <td>156</td> <td>260</td> </tr> <tr> <td>Total</td> <td>351</td> <td>334</td> <td>685</td> </tr> </tbody> </table>		Eats	Doesn't	Total	Male	247	178	425	Female	104	156	260	Total	351	334	685
	Eats	Doesn't	Total														
Male	247	178	425														
Female	104	156	260														
Total	351	334	685														
Venn Diagram	Tree Diagram																
	$0.62(685) = 425$ $0.58(425) = 247$ $0.38(685) = 260$ $0.60(260) = 156$ 																
Does this data surprise you? Why or why not.																	

Units 1-2 Review

Quadratic Formula : $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Standard Form:
 $ax^2 + bx + c$

Vertex Form:
 $a(x-h)^2 + k$

Factored Form:
 $(x-d)(x-e)$

To solve:
Find x-intercepts,
make $y=0$ and
solve for x . Look
for where the quad-
ratic crosses the
x-axis.

Homework

Units 1-2 Review WKS