



# Exit Ticket ZZ2 - Probability with Venn Diagrams

Name:.....

Date:.....

The Venn diagram shows the number of left-handed students in a year group (set A) and the number of vegetarians in the same year group (set B).

A student from the year group is chosen at random. What is the probability that the student is a right-handed vegetarian?

**A**  $\frac{45}{200}$    **B**  $\frac{45}{115}$    **C**  $\frac{15}{115}$    **D**  $\frac{25}{200}$

Correct Answer: A B C D

Explanation:

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$\Pr(A) = 0.6$  and  $\Pr(B) = 0.4$ .  
Find the value of  $\Pr(A \cap B)$  if  $\Pr(A \cup B) = 0.9$ .

A.  $\Pr(A \cap B) = 0.1$   
B.  $\Pr(A \cap B) = 0.24$   
C.  $\Pr(A \cap B) = 0.9$   
D.  $\Pr(A \cap B) = 0.44$

Correct Answer: A B C D

Explanation:

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**AQA**  
Resolving potential

There are 180 students in Year 12 of a school.  
75 students study maths  
93 students study psychology  
40 students study neither

Work out how many students study both maths and psychology.  
You may like to use a Venn diagram to help you.

A	B	C	D
168	56	28	140

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Correct Answer: A B C D

Explanation:

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