



New Maths GCSE: P6 - Venn Diagram Questions

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).

How many students are there altogether?

A 200 **B** 115
C 70 **D** 85

Correct Answer: A B C D

Explanation:

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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).

How many right-handed meat eaters are there?

A 25 **B** 15
C 45 **D** 115

Correct Answer: A B C D

Explanation:

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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).

Which value represents $(A \cap B)$?

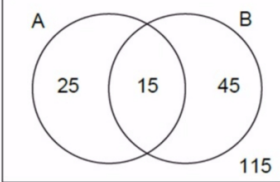
A 85 **B** 15
C 200 **D** 70

Correct Answer: A B C D

Explanation:

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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).



Which value represents $(A \cup B)$?

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Correct Answer: A B C D

Explanation:

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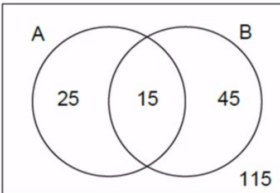
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The Venn diagram shows the number of left-handed students in a year group (set A) and the number of vegetarians in the same year group (set B).



Which value represents (A') ?

- A 160 B 25
- C 45 D 175

Correct Answer: A B C D

Explanation:

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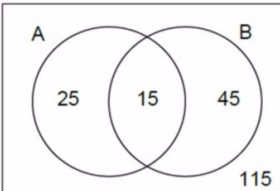
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The Venn diagram shows the number of left-handed students in a year group (set A) and the number of vegetarians in the same year group (set B).



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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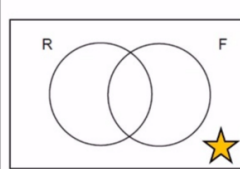
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A running club has 120 members. 89 of the members take part in road races. 54 of the members take part in fell races. 17 of the members do not run in road or fell races. Use this information to complete the Venn diagram. R represents those runners who run in Road races. F represents those runners who run in Fell races.



What number should replace the star?

- A 120 B 17 C 54 D 23

Correct Answer: A B C D

Explanation:

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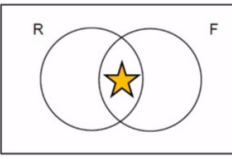
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A running club has 120 members.
 89 of the members take part in road races.
 54 of the members take part in fell races.
 17 of the members do not run in road or fell races.

Use this information to complete the Venn diagram.
 R represents those runners who run in Road races.
 F represents those runners who run in Fell races.



What number should replace the star?

A 60 **B** 40 **C** 126 **D** 143

Correct Answer: A B C D

Explanation:

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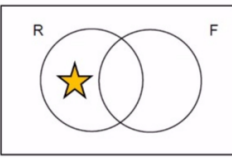
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What number should replace the star?

A 49 **B** 89 **C** 31 **D** 40

Correct Answer: A B C D

Explanation:

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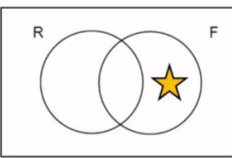
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 R represents those runners who run in Road races.
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What number should replace the star?

A 66 **B** 27 **C** 14 **D** 54

Correct Answer: A B C D

Explanation:

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