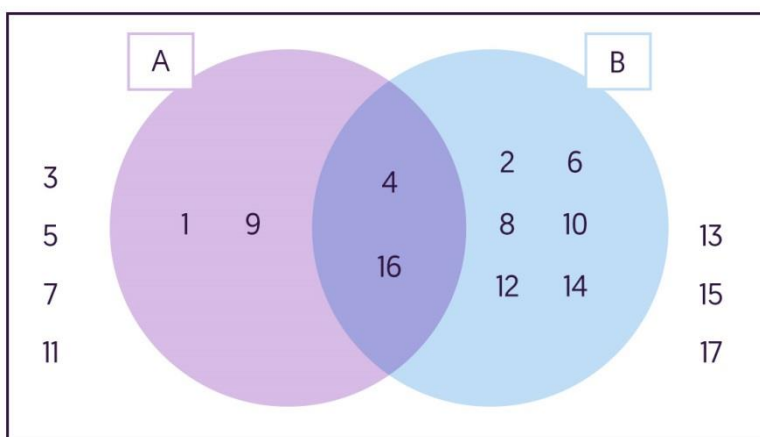


Bitesize Daily Year 9/S3 lessons
16 June - Use Venn diagrams to sort data

Practise - Activity 1: Quiz

The Venn diagram below shows the positive numbers up to, though not including, 18. Use it to help you answer questions 1–5.



1. What does set A represent?

- a) Odd numbers
- b) Even numbers
- c) Square numbers
- d) Prime numbers

2. What does set B represent?

- a) Odd numbers
- b) Even numbers
- c) Square numbers
- d) Prime numbers

3. Which of the following sets shows the universal set?

- a) $\varepsilon = \{1, 2, 3 \dots 17\}$
- b) $\varepsilon = \{0, 1, 2, 3 \dots 17\}$
- c) $\varepsilon = \{1, 2, 3 \dots 17, 18\}$
- d) $\varepsilon = \{0, 1, 2, 3 \dots 17, 18\}$

4. Which of the following sets shows the complement of B?

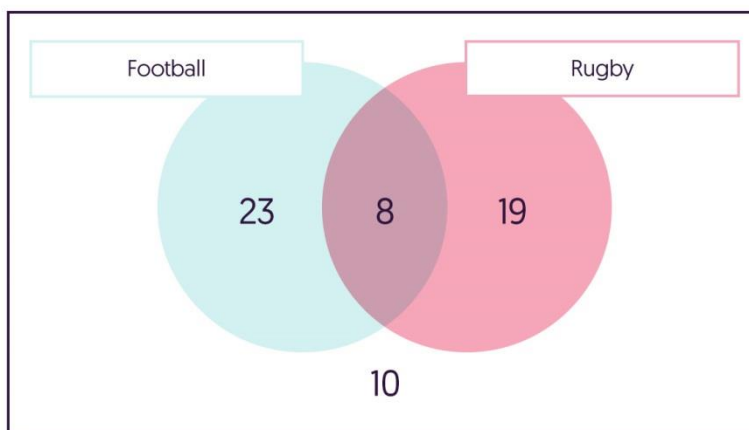
- a) $B' = \{1, 9\}$
- b) $B' = \{1, 4, 9, 16\}$
- c) $B' = \{1, 3, 4, 5, 7, 9, 11, 13, 15, 16, 17\}$
- d) $B' = \{1, 3, 5, 7, 9, 11, 13, 15, 17\}$

5. How many members does the set 'A and B' have?

- a) 2
- b) 4
- c) 9
- d) 11

The Venn diagram below shows the sports that some people like.

Use it to help you answer questions 6–9.



6. What does the number 8 represent in this Venn diagram?

- a) The number of people who do not like football or rugby
- b) The number of people who like football
- c) The number of people who like rugby but not football
- d) The number of people who like football and rugby

7. How many people are represented in this Venn diagram?

- a) 50
- b) 60
- c) 68
- d) 52

8. How many people do not like rugby?

- a) 8
- b) 19
- c) 33
- d) 23

9. Which of the following ratios represents the number of people who like football or rugby and the number of people who do not like football or rugby?

- a) 5 : 1
- b) 1 : 5
- c) 21 : 5
- d) 4 : 5