

When many entities come together in a group, we call it a set. A set has elements or members that are objects in mathematics: characters, numbers, points in space, lines, other geometrical shapes, variables, or even other sets. They enable us to treat a group of mathematical objects as a separate mathematical item. Sets allow us to formalize mathematical theories by treating the collections we want to discuss as mathematical objects in their own right.

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# Q1: Which symbol represents the union of two sets?

- A: ∩
- B: ∪
- C: ∖
- D: ∈

#### Q2: In set theory, what does '∈' represent?

- A: Union
- **B:** Intersection
- C: Element of
- D: Empty set

# Q3: In set theory, what does '\' represent?

- A: Union B: Intersection
- C: Difference
- D: Complement

## Q4: What is a finite set?

- A: Sets with a finite or countable number of entities
- B: A set that is limitless from beginning to end
- C: An undefined set
- D: A set that contains no elements

## Q5: What is an infinite set?

- A: Sets with a finite or countable number of entities
- B: A set that is limitless from beginning to end
- C: An undefined set
- D: A set that contains no elements



## Q6: What is an equal set?

- A: Sets with a finite or countable number of entities
- B: A set that is limitless from beginning to end
- C: Two sets have the same number of elements and equal entities.
- D: A set that contains no elements

## Q7: What is a null set?

A: Sets with a finite or countable number of entities

B: A set that is limitless from beginning to end

C: An undefined set

D: A set that contains no elements

#### Q8: What is a singleton set?

A: A collection of all the entities associated with a certain context

B: A set that only has one element

C: No shared elements between two sets

D: None from above

#### Q9: What is a universal set?

A: A collection of all the entities associated with a certain context

- B: A set that only has one element
- C: No shared elements between two sets

D: None from above

## Q10: How does one define a disjoint set?

A: A collection of all the entities associated with a certain context

- B: A set that only has one element
- C: No shared elements between two sets
- D: None from above





#### Answers

- Q1: B U
- Q2: C Element of
- Q3: C Difference
- Q4: A Sets with a finite or countable number of entities
- Q5: B A set that is limitless from beginning to end
- Q6: C Two sets have the same number of elements and equal entities.
- Q7: D A set that contains no elements
- Q8: B A set that only has one element
- Q9: A A collection of all the entities associated with a certain context
- **Q10:** C No shared elements between two sets