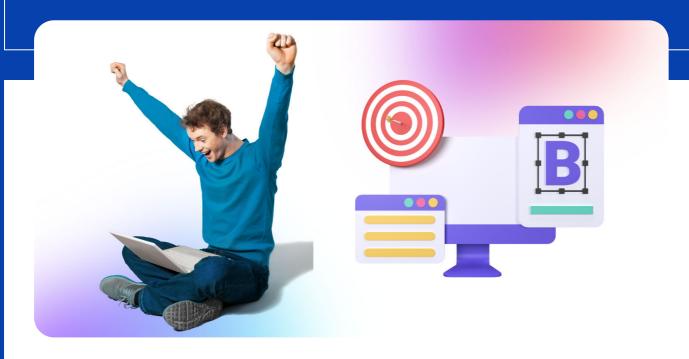


SYMMETRY

Symmetry is a fundamental concept that pervades various aspects of the natural world, art, and mathematics. It refers to a balanced arrangement or pattern in which elements exhibit a form of correspondence or equivalence across a central axis, point, or plane. This balance can be reflected, rotational, translational, or even more complex.

Read more



Q1: What is the e	quation for a lin	e of bilateral	symmetry	?
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A: y = 0

B: x = 0

C: y = x

D: x = -y

Q2: What is the axis of symmetry for a symmetrical polygon?

A: The diagonal of the polygon

B: The perpendicular bisector of a side

C: The centroid of the polygon

D: The center of the polygon

Q3: How does an asymmetrical object differ from a symmetrical one?

A: It lacks balance and proportion

B: It cannot be divided into identical halves

C: It is more aesthetically pleasing

D: It exhibits more symmetry than a symmetrical object

Q4: Which of the following shapes exhibits rotational symmetry?

A: Square

B: Triangle

C: Circle

D: Rhombus

Q5: What is the equation for a line of reflectional symmetry in the coordinate plane?

A: x = y

B: y = x

C: y = -x

D: x = -y



Q6: In a parallelogram, what is the relationship between the opposite sides concerning symmetry?

A: They are parallel but not symmetrical

B: They are symmetrical but not parallel

C: They are both parallel and symmetrical

D: They are neither parallel nor symmetrical

Q7: Which of the following natural objects typically exhibits bilateral symmetry?

A: Starfish

B: Jellyfish

C: Octopus

D: Sea urchin

Q8: The line connecting the midpoints of two sides of a rectangle represents what type of symmetry in the rectangle?

A: Rotational symmetry

B: Reflectional symmetry

C: Bilateral symmetry

D: Translational symmetry

Q9: A symmetrical pattern with a rotational symmetry of 180 degrees would look the same after a half-turn. Which of the following shapes exhibits this type of symmetry?

A: Equilateral triangle

B: Regular hexagon

C: Isosceles trapezoid

D: Rectangle

Q10: An object with mirror-image symmetry across its central axis is said to have:

A: Bilateral symmetry

B: Quadrilateral symmetry

C: Translational symmetry

D: Triangular symmetry



Answers

Q1: B - x = 0

Q2: B - The perpendicular bisector of a side

Q3: A - It lacks balance and proportion

Q4: C - Circle

Q5: B - y = x

Q6: C - They are both parallel and symmetrical

Q7: D - Sea urchin

Q8: B - Reflectional symmetry

Q9: A - Equilateral triangle

Q10: A - Bilateral symmetry