

Inductive Reasoning

Free Test 2



Solutions Booklet

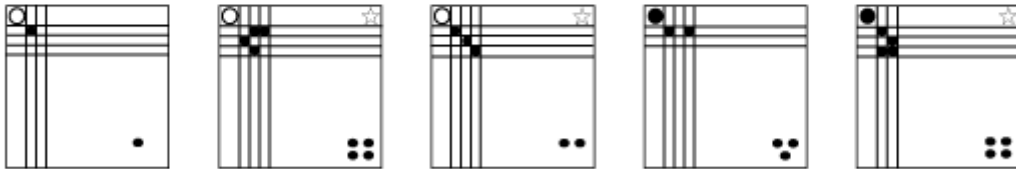
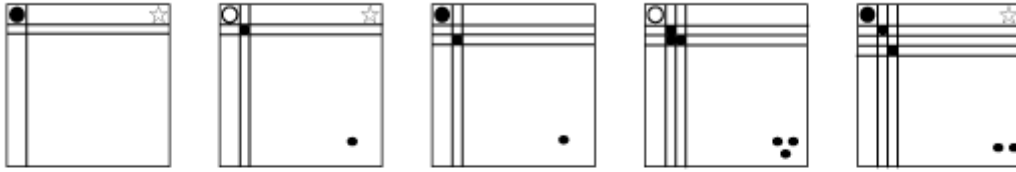
Instructions

This test contains **11 questions**. There is an overall time limit of **11 minutes** for the test.

In each question you will be presented with a logical sequence of five figures. You will need to determine which of the possible answers best matches the next figure in the sequence, or which replaces the question mark.

Each question will have 1 correct answer from a choice of 5 possible answers, and you must select the most correct option.

Try to find a time and place where you will not be interrupted during the test. The test will begin on the next page.



A

B

C

D

E

Q1 What comes next in the sequence?

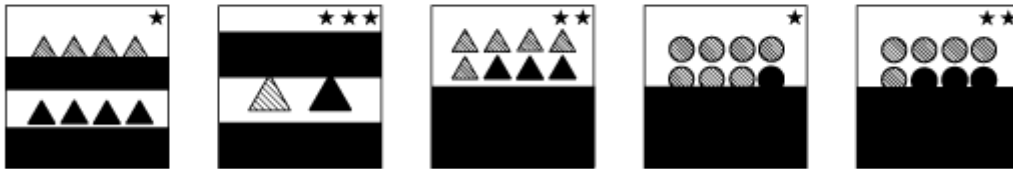
- (A) A
- (B) B**
- (C) C
- (D) D
- (E) E

Rule 1: The number of lines increases by one each time, alternating between adding a horizontal line, then a vertical.

Rule 2: The circle in the top left corner alternates between shaded and clear.

Rule 3: There is a star in the top right corner twice running, then none twice running, repeated etc.

Rule 4: The number of squares filled in between the crossing lines corresponds to the number of spots bottom right.



A

B

C

D

E

Q2 What comes next in the sequence?

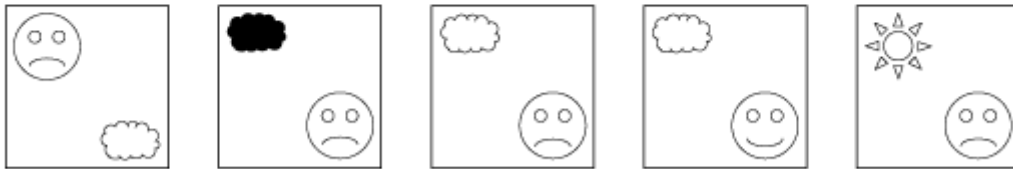
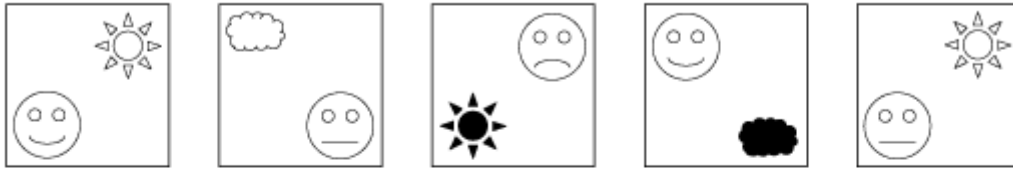
- (A) A
- (B) B
- (C) C**
- (D) D
- (E) E

Rule 1: The number of stars in the top right predicts how many horizontal lines will be in the next box.

Rule 2: The circle alternates with a triangle.

Rule 3: The number of circles or triangles is the sum of the number of circles and triangles in the previous two boxes, with the black shading obscuring some shapes.

Rule 4: The number of shapes with hatched shading increases by 1 each turn.



A

B

C

D

E

Q3 What comes next in the sequence?

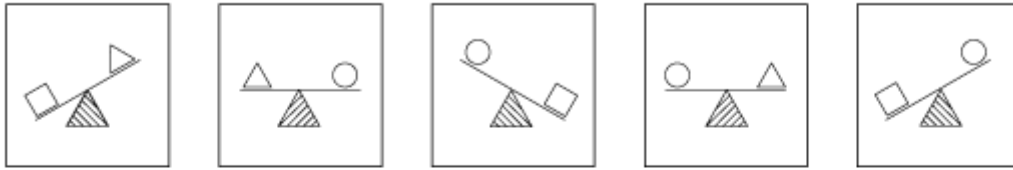
- (A) A
- (B) B
- (C) C**
- (D) D
- (E) E

Rule 1: The face changes in sequence from smiley to ambivalent to frowning.

Rule 2: The weather symbol alternates between sun and cloud.

Rule 3: The weather symbol is clear for two items then shaded for two items, then clear for two items.

Rule 4: The shapes move one corner anticlockwise each turn.



A

B

C

D

E

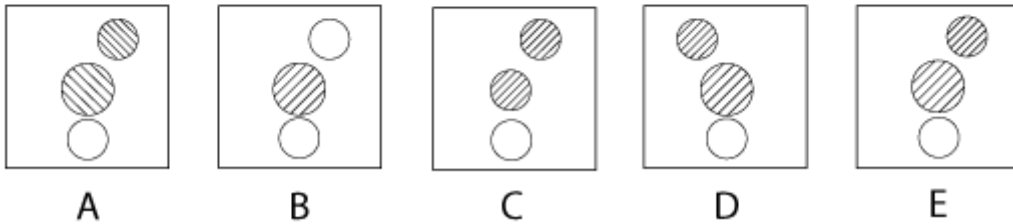
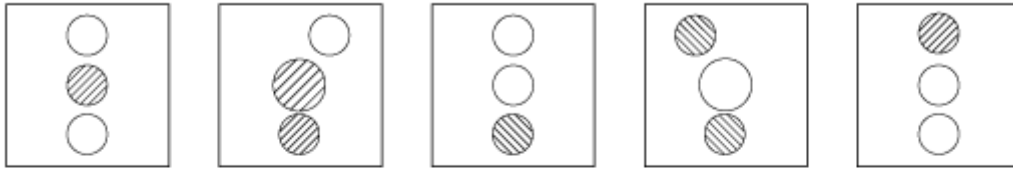
Q4 What comes next in the sequence?

- (A) A
- (B) B
- (C) C
- (D) D**
- (E) E

Rule 1: The scales are tipped fully to the left, then straight, then tipped fully to the right, then straight. This sequence then repeats.

Rule 2: Squares weigh more than triangles and circles, which weigh the same as each other.

Rule 3: The support for the scales alternates between having downward cross-hatching and having upwards cross-hatching.



Q5 What comes next in the sequence?

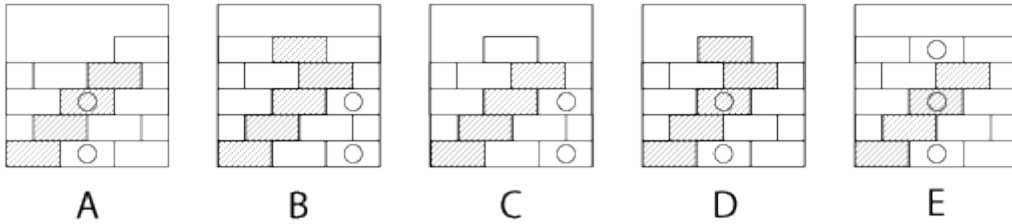
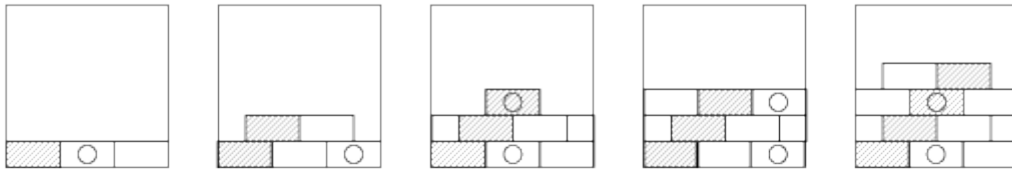
- (A) A
- (B) B
- (C) C
- (D) D
- (E) E**

Rule 1: The cross-hatching alternates between being applied to the circle below the shaded one (wrapping round to the top when no circle is available below) and removed from the circle that has had the cross-hatching for two consecutive figures.

Rule 2: The middle circle alternates between being half-way between the other circles in size and being bigger than both of them.

Rule 3: The cross hatching slopes upwards for two figures then downwards for two figures. This sequence then repeats.

Rule 4: The top circle moves to the right, then the centre, then the left, then the centre. This sequence then repeats.



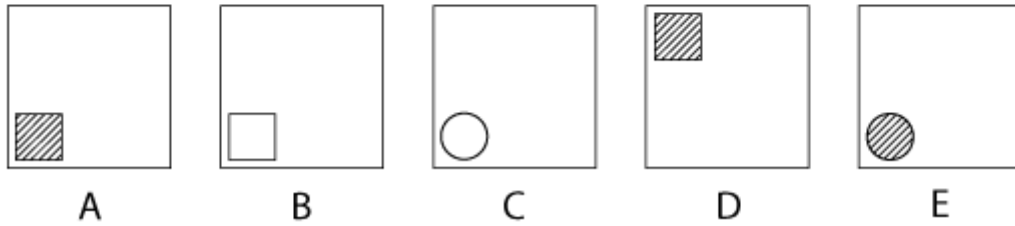
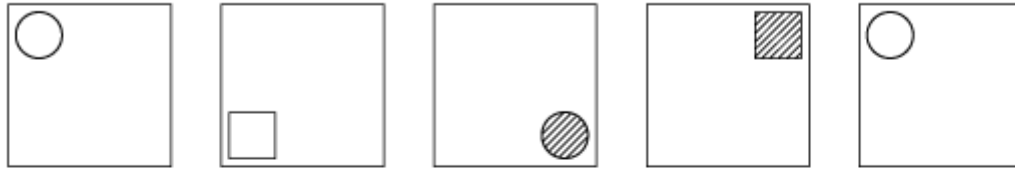
Q6 What comes next in the sequence?

- (A) A
- (B) B
- (C) C**
- (D) D
- (E) E

Rule 1: Two bricks are added each time, starting from the centre and working outwards. Each row is completed before the next is started, and addition of two half bricks counts as adding one whole brick.

Rule 2: Bricks on the bottom left to top right diagonal have upward sloping cross-hatching.

Rule 3: The circle alternates between being on whole bricks that are central, and whole bricks that are on the far right.



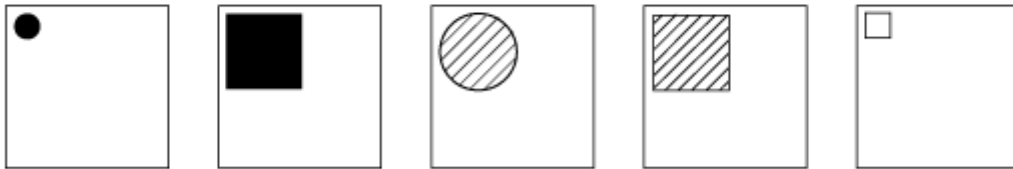
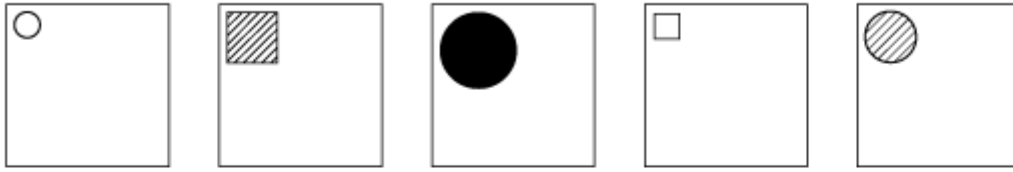
Q7 What comes next in the sequence?

- (A) A
- (B) B**
- (C) C
- (D) D
- (E) E

Rule 1: The shapes move one corner anticlockwise each time.

Rule 2: The shapes alternate between circle and squares

Rule 3: The hatching changes between hatched and unhatched every other graphic in the sequence. I.e. off, off, on, on, off, off ... and so on.



A

B

C

D

E

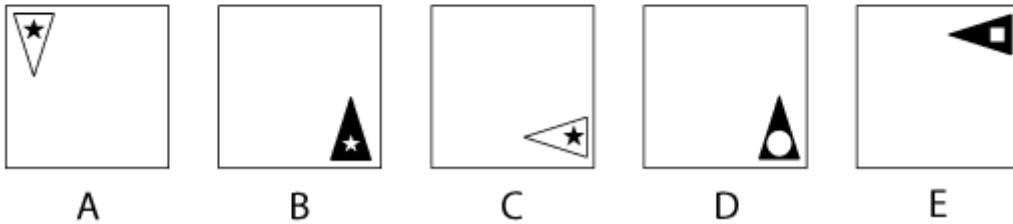
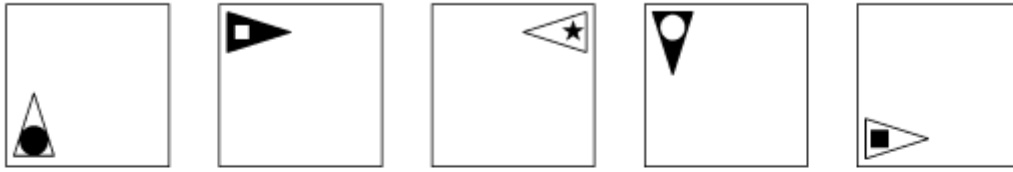
Q8 What comes next in the sequence?

- (A) A
- (B) B**
- (C) C
- (D) D
- (E) E

Rule 1: The shapes grow small, medium, then large, then start again.

Rule 2: The shapes alternate between circle and square

Rule 3: The shading in the shapes increases from empty, to hatched, to full shading.



Q9 What comes next in the sequence?

- (A) A
- (B) B**
- (C) C
- (D) D
- (E) E

Rule 1: The position of the shapes in the current item is determined by the direction the triangle is pointing in the previous item. There is no rule to determine the direction of the arrow in the current item, only its position.

Rule 2: The shape inside the triangle changes in the repeating sequence circle, square, star.

Rule 3: The shading in the shapes alternates between the shape in the middle and the triangle.



A

B

C

D

E

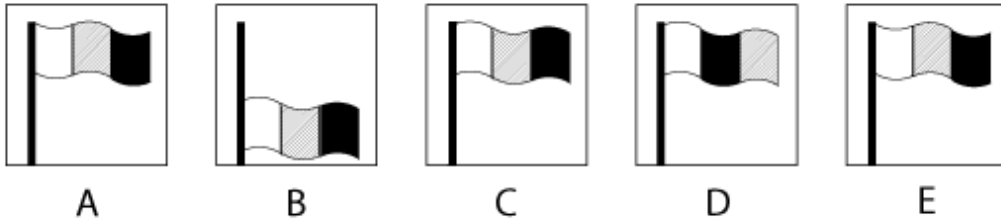
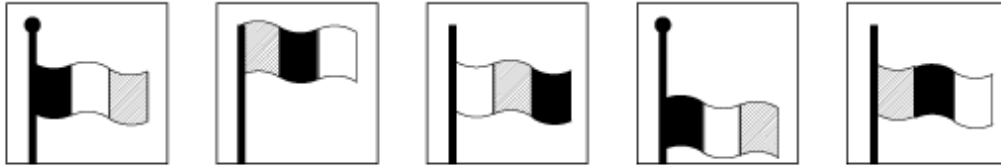
Q10 What comes next in the sequence?

- (A) A
- (B) B
- (C) C
- (D) D
- (E) E

Rule 1: The nose changes in sequence from hook to oval to none.

Rule 2: The eyes look towards the flower.

Rule 3: The number of hairs corresponds to the number of freckles.



Q11 What comes next in the sequence?

- (A) A
- (B) B
- (C) C**
- (D) D
- (E) E

Rule 1: The shading type furthest from the flagpole on one figure becomes the shading closest to the flagpole on the next figure, and every other form of shading moves one band to the right.

Rule 2: The flag alternates between the wave going down first and the wave going up first.

Rule 3: The flag's position on the pole is at half-mast, then fully raised, then half-mast, then fully lowered. This cycle then repeats.

Rule 4: The finial (or ball) atop the flag pole is present for one figure then absent for two figures. This sequence then repeats. Or similarly, the finial is present when the shaded section of the flag is adjacent to the pole.

End of test