



THE ABSTRACT TEST ONE AND TEST TWO QUESTIONS ARE
AFTER SOLUTION PAGES.

ANSWERS TO DRAGNET ABSTRACT ONE

1. **First Rule:** The stroke number of the middle object determine how many times the object to your right will be repeated

Second Rule: For the upper part of the diagram, the object at your right will be displayed at the centre, for the lower part of the object, the object at the left will be displayed at the centre.

Third Rule: The presence of strokes causes the repetition of the object at the right (for the ones below) And on the left (for the ones above) to be repeated

Answer is C

2. **First Rule:** The Object at the centre is rotating clock wisely at an angle of 45^0 each time. So the right option could be B, E or F.

Second Rule: The line/stroke at the left bottom section is rotating clock wisely at an angle of 45^0 . B or E is the likely right option.

Third Rule: The open hemisphere at the bottom right is also rotating clock wisely at an angle of 45^0

Answer is B

3. **First Rule:** Look at the object at the edges; they start the series where they are positioned. So, A, D or E could be the right option.

Second Rule: The Others that follow them in the series are gotten by taking the next object at the edge (moving clockwise). Note: The right option must start from the top, because it is in the upward section. Each series started based on its positioning.

Answer is D

4. This question does not follow a clear cut path, but one can observe that the figure is rotating anticlockwise, little by little, moving from the centre to the left.

Note: The circle shape start up a new series.

Answer is C

5. **First Rule:** The figure at the edge appears in the triangle before it in the anticlockwise direction.

Second Rule: Two out of three of the shapes inside the triangle must have the same orientation with the main shape at the edge. Option B or D

Third Rule: The last shape out of the three in the triangle will take the orientation of the shape at the edge directly adjacent it.

Answer is B

6. **First Rule:** Consider the shape horizontally; the black shapes subtract each other from the left to the right to give the answer at the extreme right. $4 - x = 2$. X is then $= 2$. The answer is usually placed where the figure is unshaded.

Answer is B

7. **First Rule:** The series are in 3 places, it starts from the 1st and ends in the 3rd block. Another starts from the 4th position. The stroke at the middle develops from being one to being two joined at the end, then being three. Then it starts from being one again. C and D are likely answers.

Second Rule: The shape direction is moving in an anticlockwise direction, from the right bottom to the left bottom to the top, and the triangle is changing colour from white to black, from one box to another.

Answer is C

8. **First Rule:** The shapes at the centre are similar to the one they are directly opposite to. A, B or C could be the answer

Second Rule: The shape above compared to the one directly opposite them (below) are moving in an anti-clockwise direction of 90°

Answer is C

9. **First Rule:** The shapes at the edges take position at the centre by moving two steps in the clockwise direction. B, D or E is the likely answer.

Second Rule: Notice the right shape, it is a flat base at one end and a black stroke at the centre

Answer is D

10. **First Rule:** The small circle is moving clockwise direction, and after each movement, it changes direction from white to black. B or D could be the right option

Second Rule: The series is taken in 3 places. The first series is an increment of one more box each. Another series start from the 4th box with a decrease of one box each.

Answer is D

11. **First Rule:** The number of times the X appears at the edge of a triangle is the number of times the stroke will be placed on the line. A, C, D or E could be the answers.

Second Rule: The stroke takes position on either side of the line based on how it is placed (up and down). The X down at the edge take position at the left of the stroke, the ones up take position at the right.

Answer is A

12. This question does not follow a clear cut path, but one can observe that the figure is rotating anticlockwise, little by little, moving from the centre to the left.

Note: The circle shape start up a new series.

Answer is C

13. **First Rule:** The triangular shaped structure is moving in a clockwise direction at an angle of 45°. C or D

Second Rule: The other structure (not the triangular one) always take two position on the left side and one on the right (i.e. when the series is considered vertically)

Answer is D

14. **First Rule:** The figure at the extreme left is inverted at the extreme right. A, B or D could be the right option.

Second Rule: The strokes at the centre are re-arranged round the figure at the extreme right.

Answer is C

15. **First Rule:** Consider the box in a vertical section. The shapes inside each of the box are moving in a clockwise direction. C or F

Second Rule: Consider the figure in a horizontal section. It is either 2black or 1plain or 2black

Answer is C

ANSWERS TO DRAGNET ABSTRACT TWO

1. **Rule:** Observe the figures in a horizontal section, you will see that the first section is divided into two halves; the second row is divided into three different sections, where two are similar.

Answer is B

2. **First Rule:** Observe the square below and above at the extreme left of each section. From one box to another, the small square alternate from being plain to being black (both above and below)

Second Rule: Observe also that in each box there are only six shapes (not less, not more). So the likely answers could be C or E.

Third rule: Anytime you have a black shape below, you have either one circle or three circles adjacent it. White shapes always have two circles adjacent to it.

Answer is C

3. Consider the figure in a horizontal section, observe that each horizontal section has one shaded figure, one crossed figure and one plain figure.

Answer is F

4. **First Rule:** The shape at the edges follow a pattern, the ones opposite the other (i.e. the edge) are smaller or bigger replica of the other.

Second Rule: The ones in the middle follow the same rule

Answer is A

6. **First Rule** : The triangular shape on each block, change orientation from one block to another. The triangle at the left bottom change orientation by moving 90° in an anti clockwise direction. C, D, E or F could be the right option.

Second Rule : The circle at the centre changes colour from blank to plain from one block to another. The next should be white. C or F is a likely answer.

Third Rule : The circle at the extreme right (top section) changes from black to plain from one block to another.

Answer is C

7. **First Rule**: The stroke number of the middle object determine how many times the object to your right will be repeated

Second Rule: For the upper part of the diagram, the object at your right will be displayed at the centre, for the lower part of the object, the object at the left will be displayed at the centre.

Third Rule: The presence of strokes causes the repetition of the object at the right(for the ones below) And on the left(for the ones above) to be repeated

Answer is C

8. **Rule**: The pattern follows from just a single dot at the centre to a circle and an X shaped figure at the extreme ends, back to a circle at the centre and then an X-shaped figure inside a circle, positioned at the base of an edge.

Following this pattern, the next figure will be C

Answer is C

11. **First Rule**: The colour of the P-figure is what is reflected in the shape inside the triangle next to it (in a clockwise direction). Right option could be either D or F.

Second Rule: The P-figure is changing direction each time from being clockwise to being anti-clockwise.

Answer is D

12. First Rule: Look at the object at the edges, they start the series where they are positioned. So, A, D or E could be the right option.

Second Rule: The Others that follow them in the series are gotten by taking the next object at the edge(moving clockwise). Note: The right option must start from the top, because it is in the upward section. Each series started based on it's positioning.

Answer is D

13. First Rule: The figure at the extreme left is inverted at the extreme right. A, B or D could be the right option.

Second Rule: The strokes at the centre are re-arranged round the figure at the extreme right.

Answer is C

14. First Rule: Look at the object at the edges, they start the series where they are positioned. So, A, D or E could be the right option.

Second Rule: The Others that follow them in the series are gotten by taking the next object at the edge(moving clockwise). Note: The right option must start from the top, because it is in the upward section. Each series started based on it's positioning.

Answer is D

15. First Rule: The dark figure at the outer square re-appears in the inner section by making an anti-clockwise movement (two steps forward)

Second Rule: That same figure in its new position takes a 90^0 turn

Answer is C

16a. **First Rule:** The small circle is moving clockwise direction, and after each movement, it changes direction from white to black. B or D could be the right option

Second Rule: The series is taken in 3 places. The first series is an increment of one more box each. Another series start from the 4th box with a decrease of one box each.

Answer is D

16b. **First Rule:** The triangles with a stroke appear at the outer region for the ones below and appear at the inner region for the ones above.

Second Rule: The triangle with a stroke take the opposite colour of the little figure at the extreme edge, but the ones above, take the same colour as the one at the extreme edge.

Answer is D

DRAGNET ABSTRACT TEST ONE

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Below the star are six triangles, each containing a different symbol. The symbols are: a circle with a dot, a circle with a horizontal line, a circle with a vertical line, a circle with a diagonal line, a circle with a cross, and a circle with a plus sign.

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Silverlight Configuration

Below the sequence are six squares, each containing a different symbol. The symbols are: a square with a dot in the top-left corner, a square with a dot in the top-right corner, a square with a dot in the bottom-left corner, a square with a dot in the bottom-right corner, a square with a dot in the top-left corner, and a square with a dot in the top-right corner.

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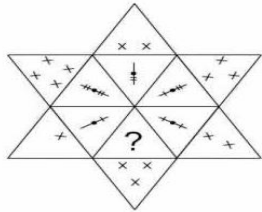
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Below the star are six radio buttons, each followed by a triangle containing a vertical line with a dot in the center.

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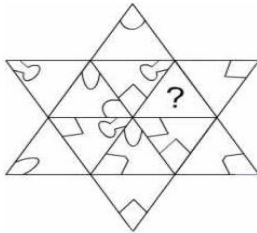
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Below the star are six radio buttons, each followed by a triangle containing a right-angle symbol.

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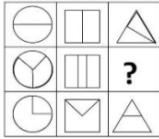
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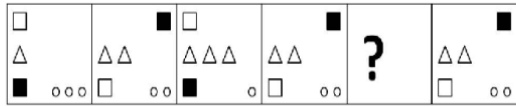


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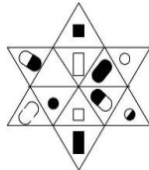
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Windows blocks programs that require permission to run when Windows starts. Click to view blocked programs.

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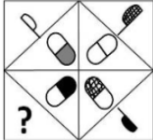
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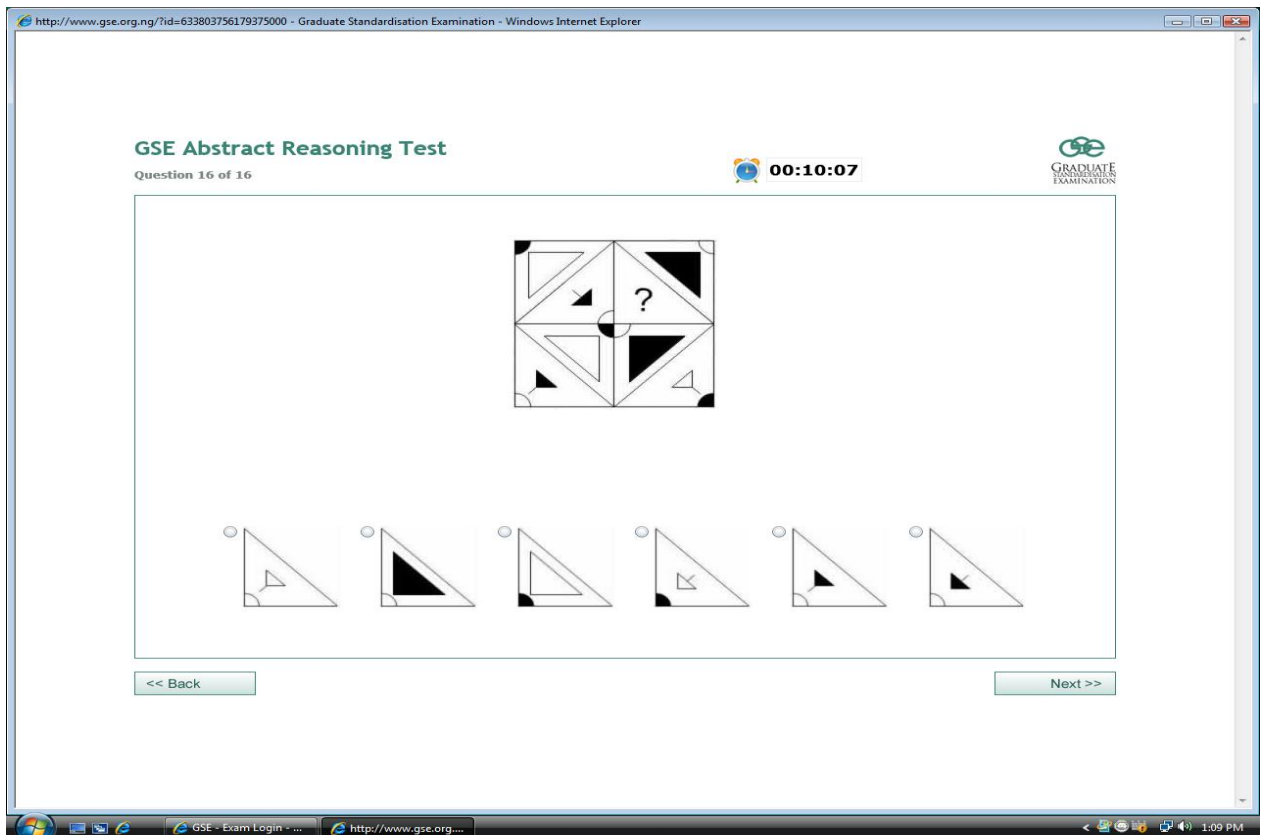
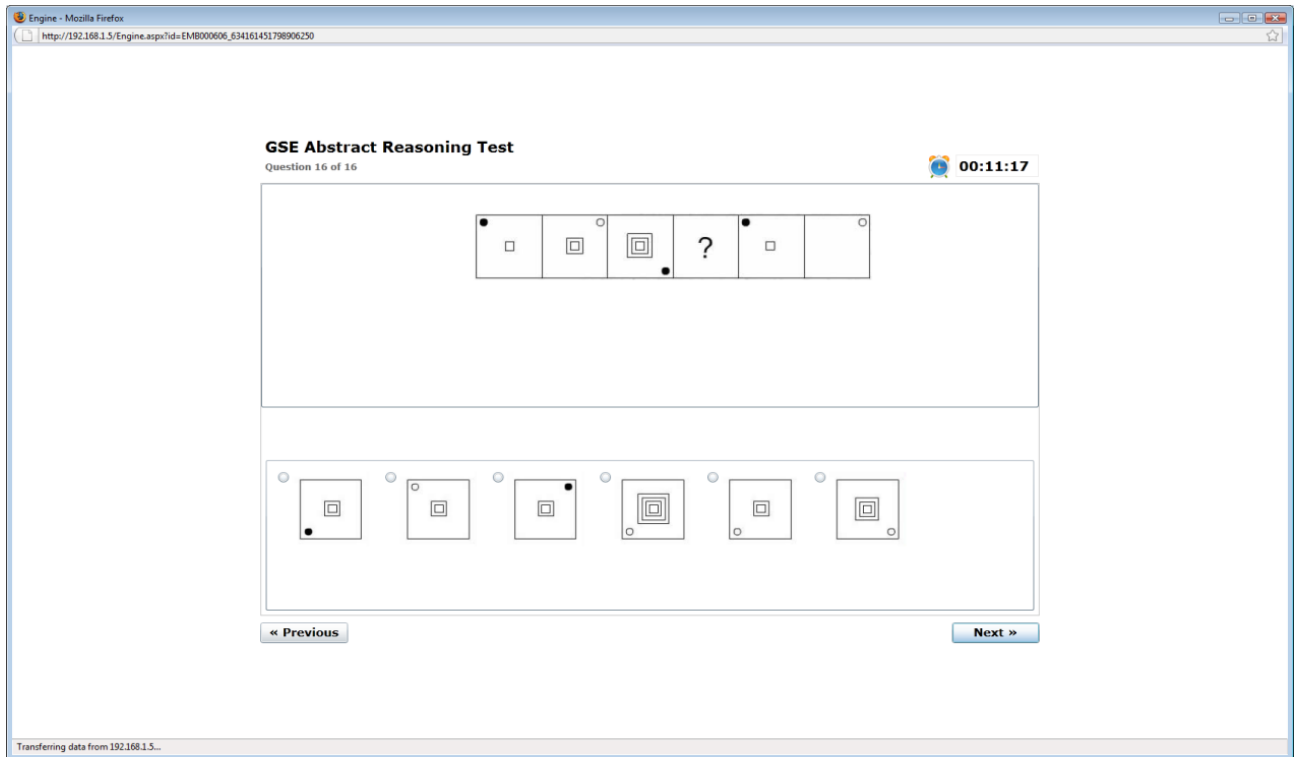
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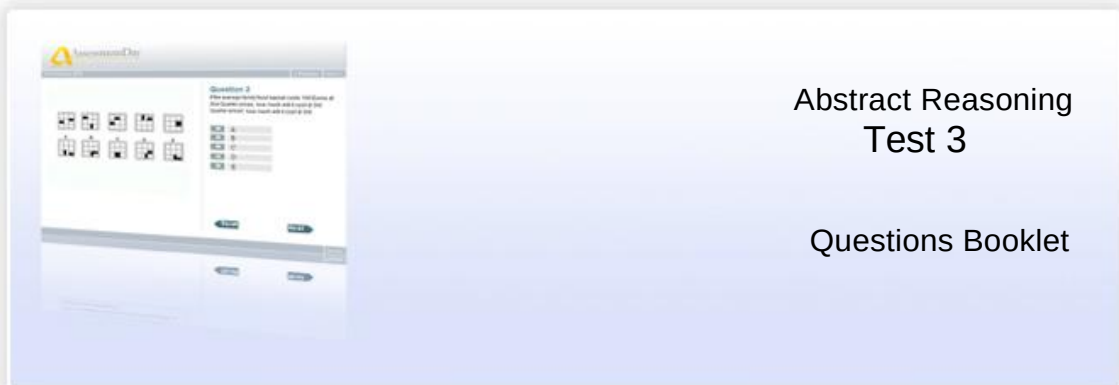
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Abstract Reasoning Test 3

Questions Booklet

Instructions

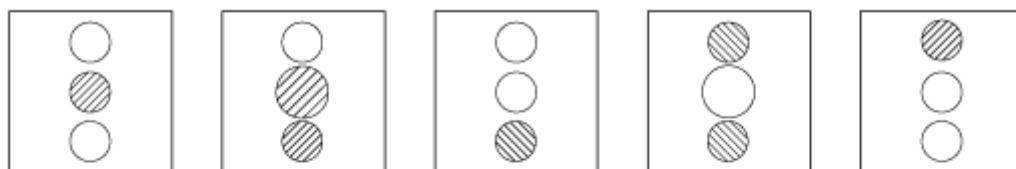
This inductive reasoning test comprises 16 questions. You will have 16 minutes in which to correctly answer as many as you can.

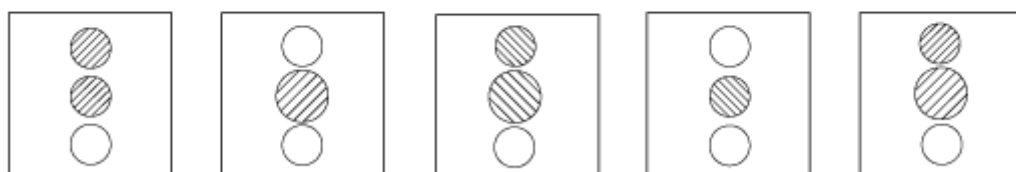
In each question you will be presented with a logical sequence of five figures. You will need to determine which of the possible answers best matches the next figure in the sequence, or replaces a missing figure in the sequence.

You will have to work quickly and accurately to perform well in this test. It is recommended to keep working until the time limit is up.

Try to find a time and place where you will not be interrupted during the test. When you are ready, turn over the page.

Question 1





A

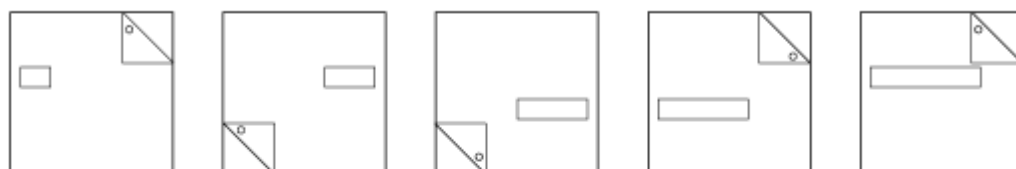
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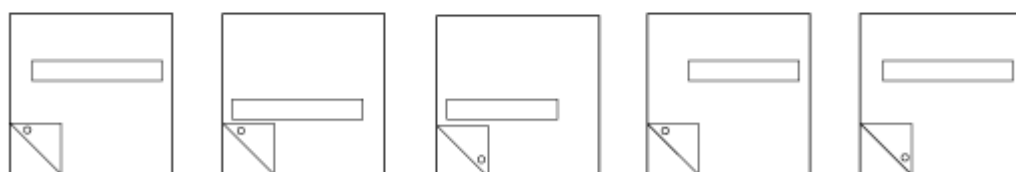
C

D

E

Question 2





A

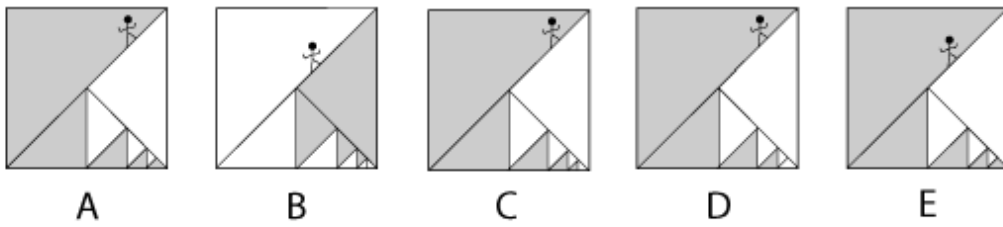
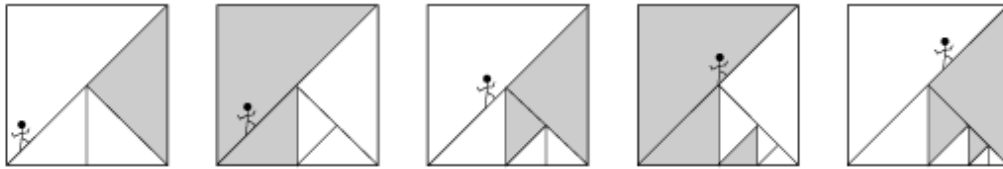
B

C

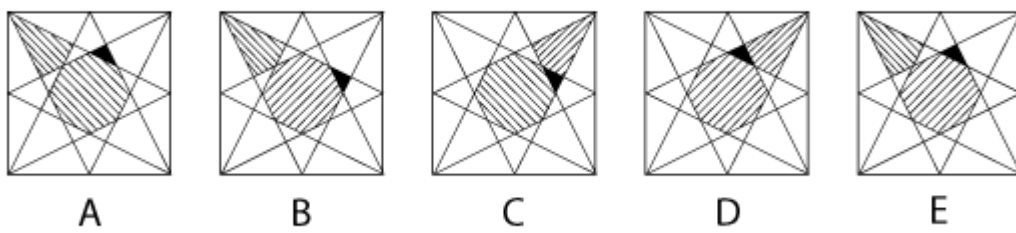
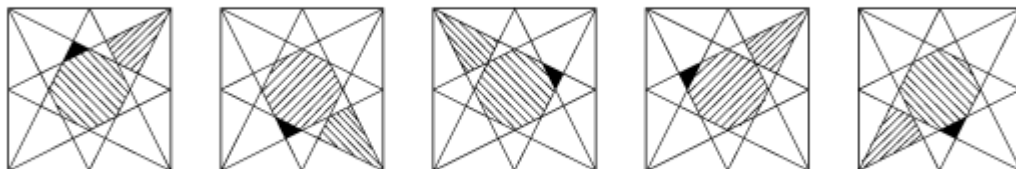
D

E

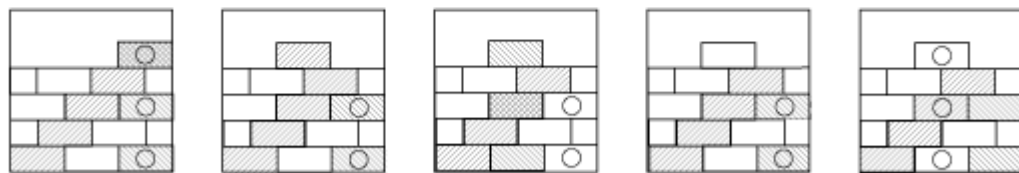
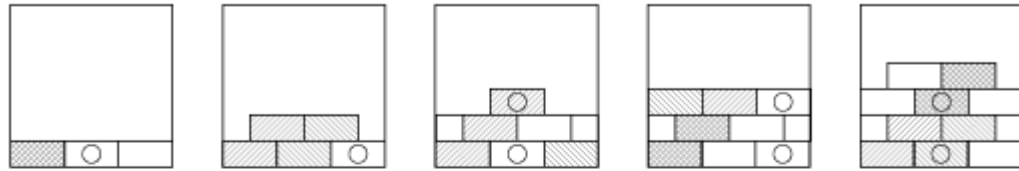
Question 3



Question 4



Question 5



A

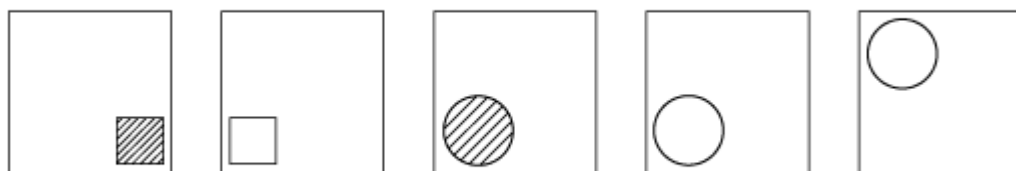
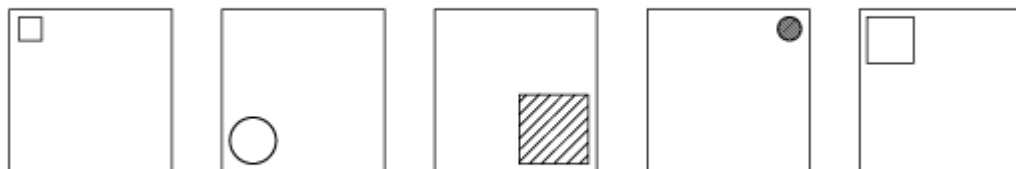
B

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Question 6



A

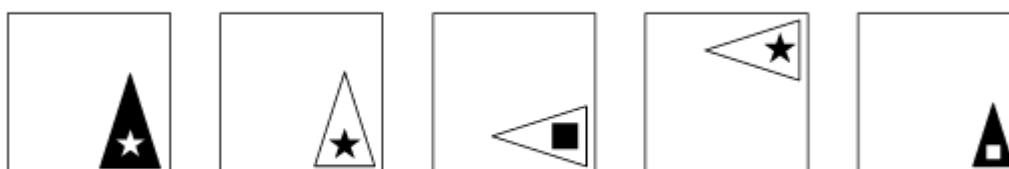
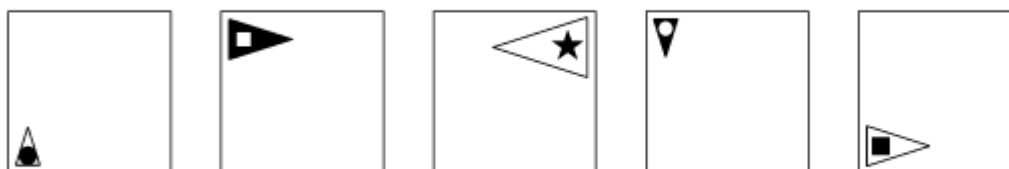
B

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Question 7



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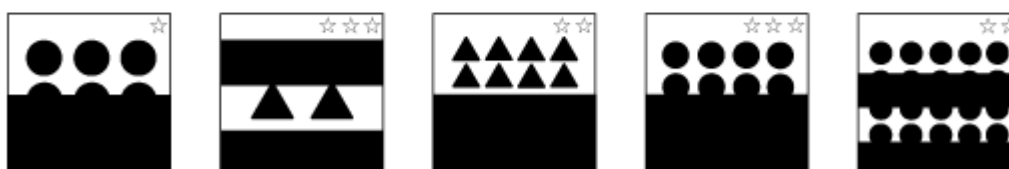
B

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Question 8



A

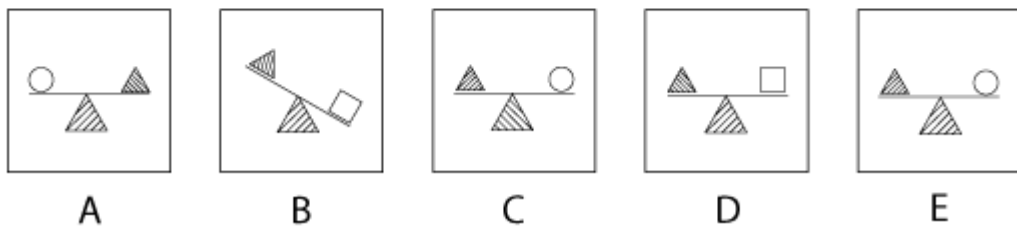
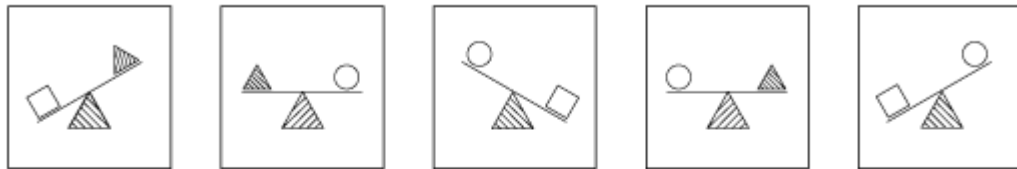
B

C

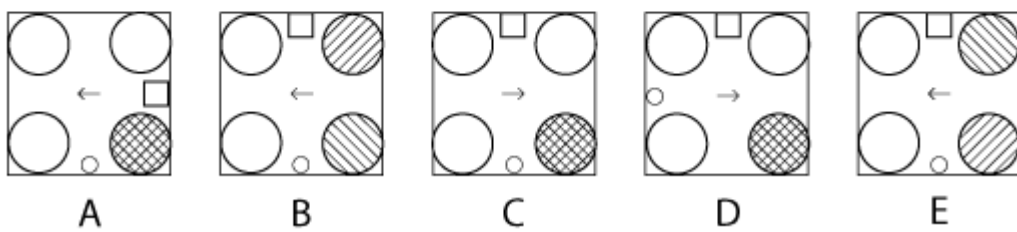
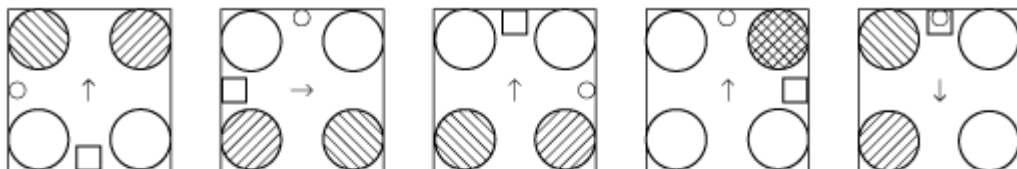
D

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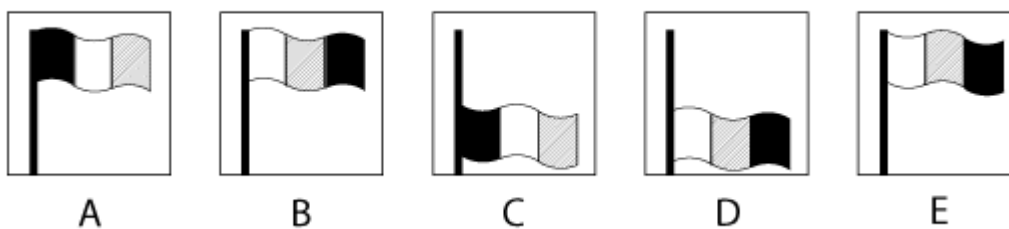
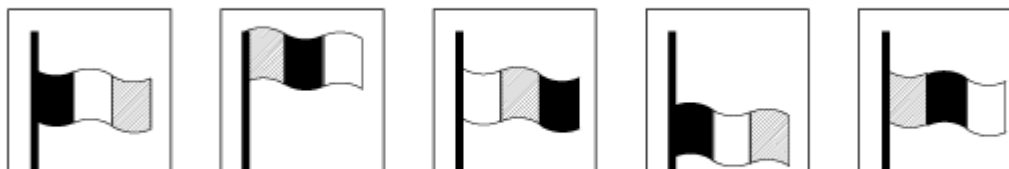
Question 9



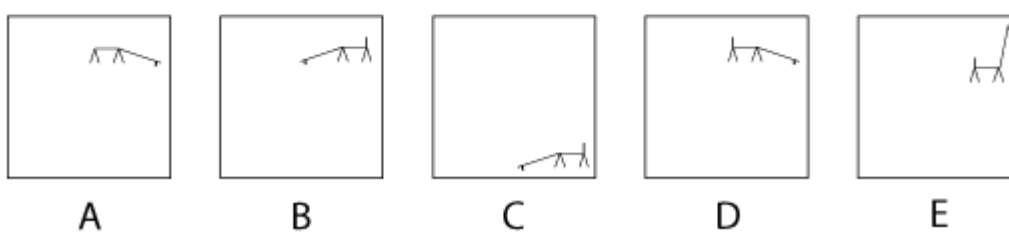
Question 10



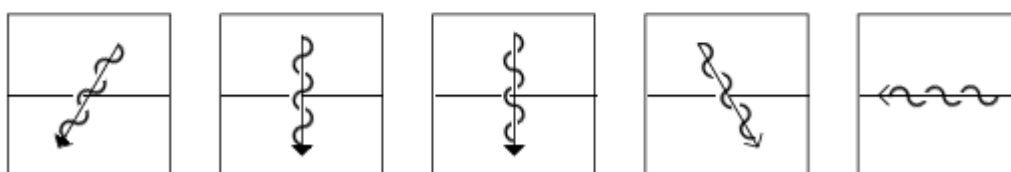
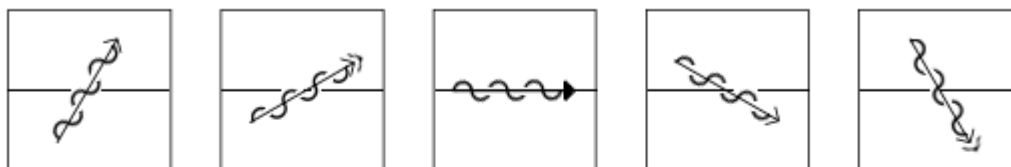
Question 11



Question 12



Question 13



A

B

C

D

E

Question 14



A

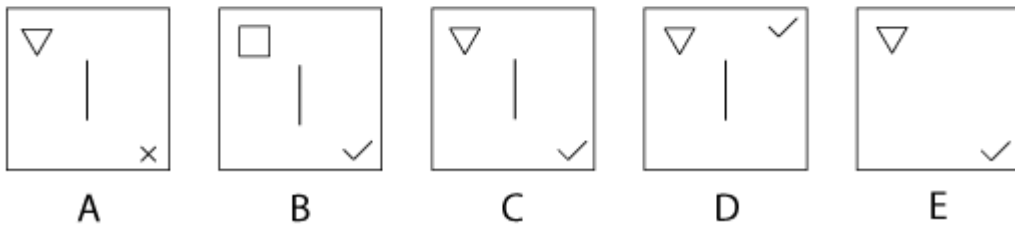
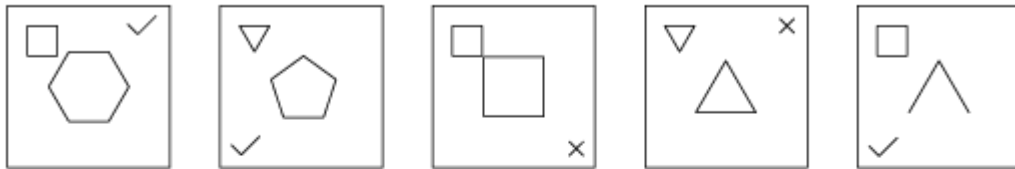
B

C

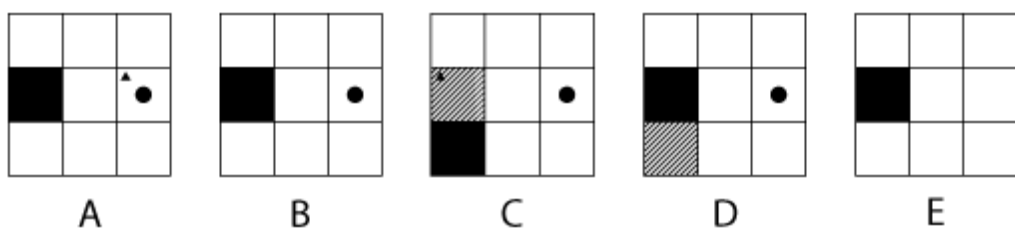
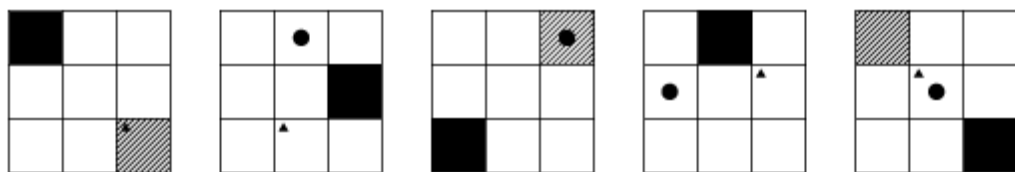
D

E

Question 15



Question 16



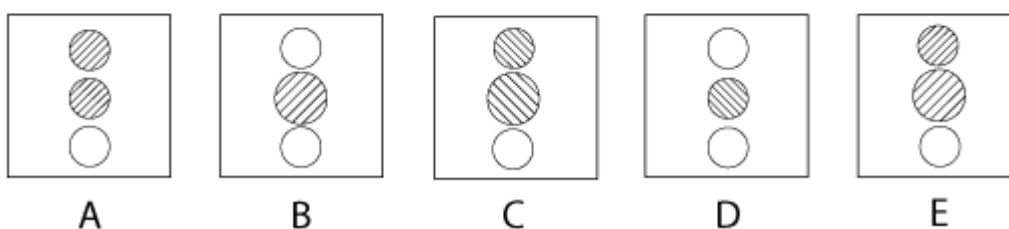
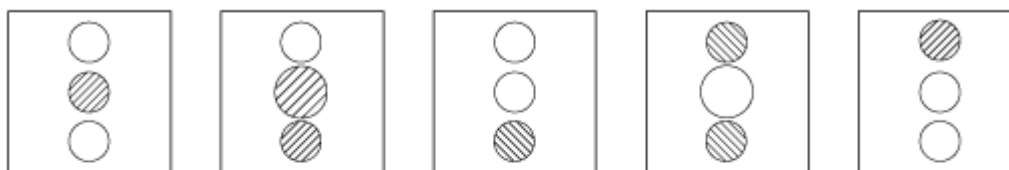




Abstract Reasoning
Test 3

Solution Booklet

Question 1



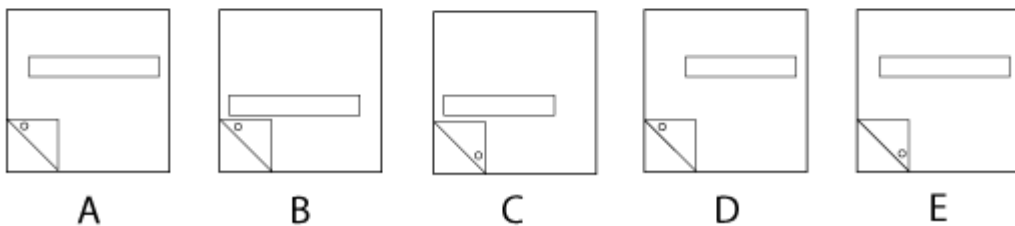
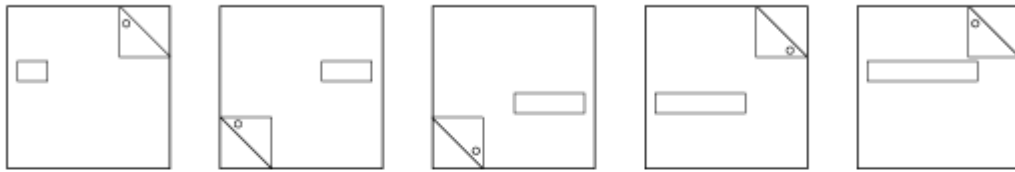
The correct answer is E

First Rule: 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.

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

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

Question 2



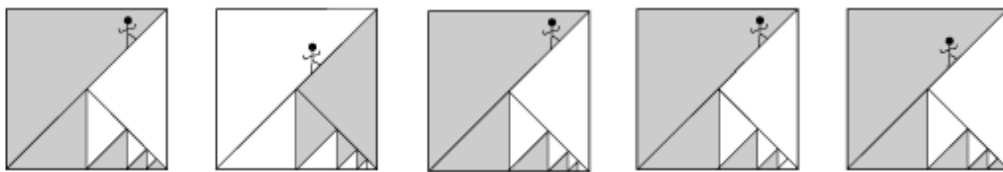
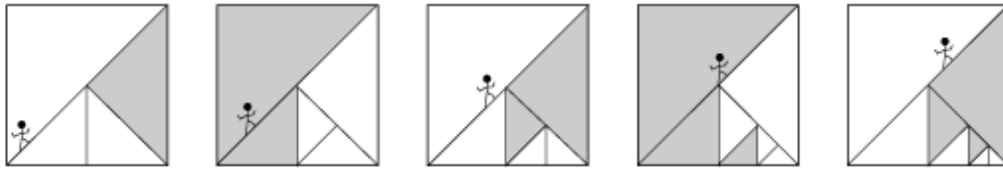
The correct answer is A

First Rule: The triangle with a dot in one corner alternates between mirrored in a diagonal from the top left of the figure to the bottom right and mirrored in a diagonal from the top right of the figure to the bottom left.

Second Rule: The rectangle alternates between being mirrored vertically and mirrored horizontally.

Third Rule: The rectangle also increases in width by a uniform amount every time, in a direction that is away from the closest edge of the figure.

Question 3



A

B

C

D

E

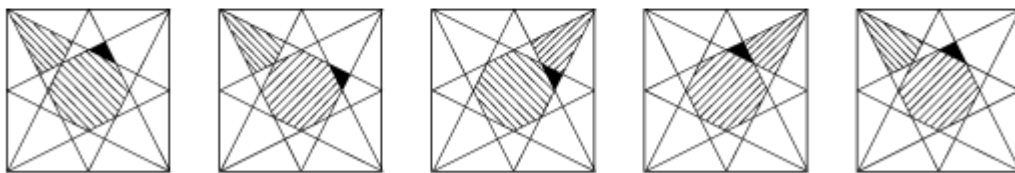
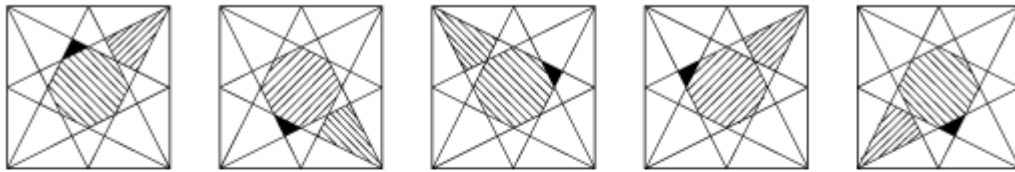
The correct answer is D

First Rule: Every time, the small triangle nearest the bottom right corner is split into two equal triangles of the same proportions.

Second Rule: The two, newly created, smallest triangles are always unshaded. The rest alternate between being shaded and unshaded in each image.

Third Rule: The stick figure moves up the hypotenuse of the largest triangle by an equal amount every time.

Question 4



A

B

C

D

E

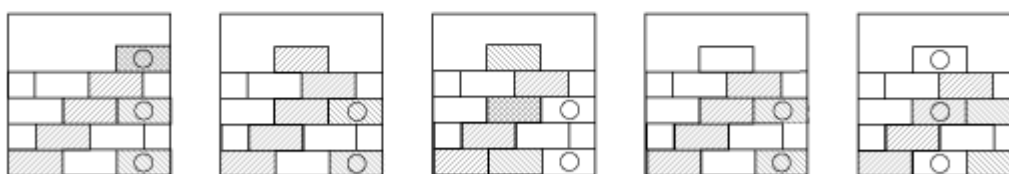
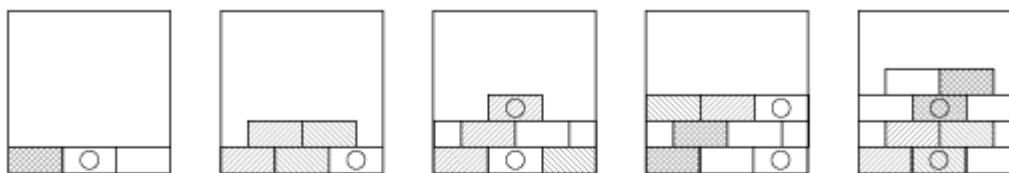
The correct answer is E

First Rule: The shading of the small triangles moves 3 triangles anti-clockwise each time.

Second Rule: The cross-hatching on the kite shapes near the corners of the figure, which is always in the direction of the nearest corner, moves clockwise, alternating between moving one shape and moving two.

Third Rule: The centre shapes alternates between having downward sloping cross-hatching and having upward sloping cross-hatching.

Question 5



A

B

C

D

E

The correct answer is D

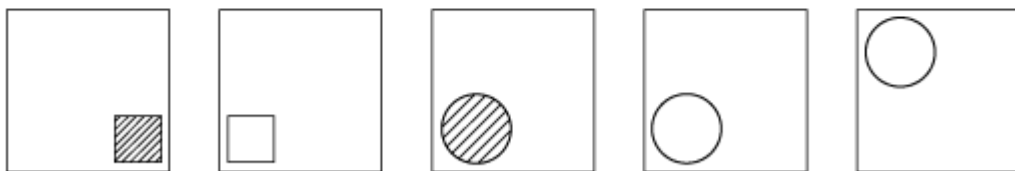
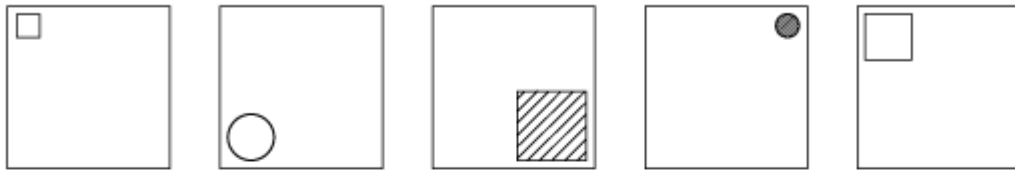
First Rule: Two bricks are added each time, starting from the centre and working outwards. Each row is completed before the next is started, and addition of two half bricks counts as adding one whole brick.

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

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

Fourth Rule: Reading left to right, downward sloping cross-hatching is applied to the first, then second, then third full brick on every row, with incomplete rows being treated as though they were complete when determining this pattern. This sequence then repeats.

Question 6



A

B

C

D

E

The correct answer is D.

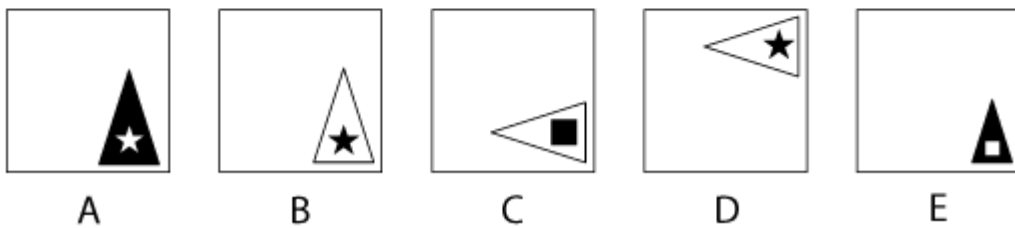
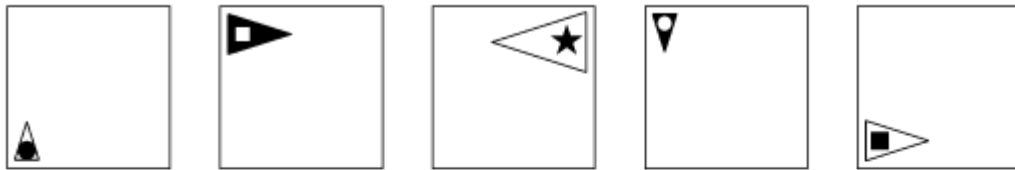
Rule 1: The shapes move one corner anticlockwise each time.

Rule 2: The shapes alternate between circle and square.

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.

Rule 4: The shapes grow small, medium, then large, then start again.

Question 7



The correct answer is A.

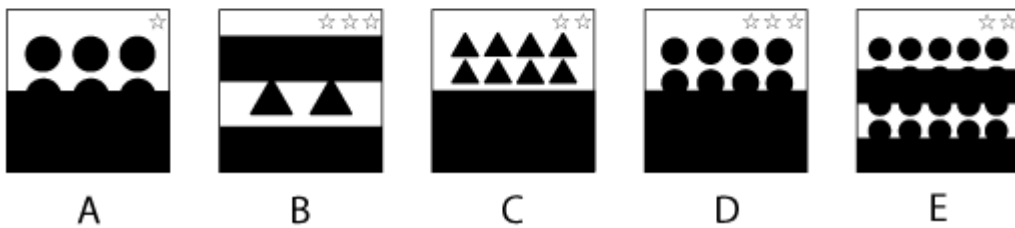
Rule 1: The position of the shapes in the current item is determined by the direction the triangle is pointing in the previous item. There is no rule to determine the direction of the arrow in the current item, only its position.

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.

Rule 4: The shapes grow small, medium, large then back to small, medium etc.

Question 8



The correct answer is C.

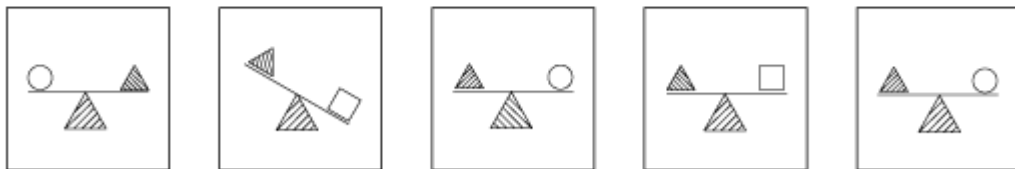
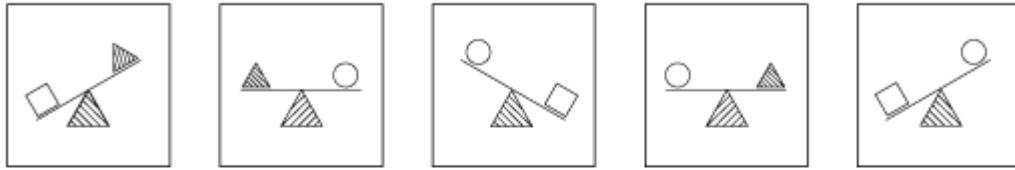
Rule 1: The number of stars in the top right predicts how many horizontal lines will be in the next box.

Rule 2: The circles alternate with triangles.

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.

Note: even though the black shading is obscuring some of the 13 triangles, it is possible to see that C is the correct answer by process of elimination; i.e. a particular rule excludes all of the other possible answers.

Question 9



A

B

C

D

E

The correct answer is A

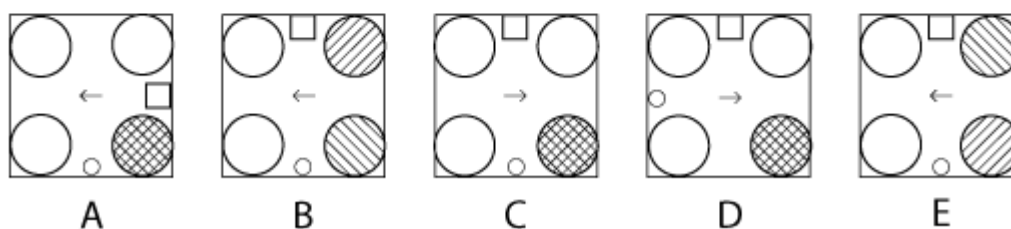
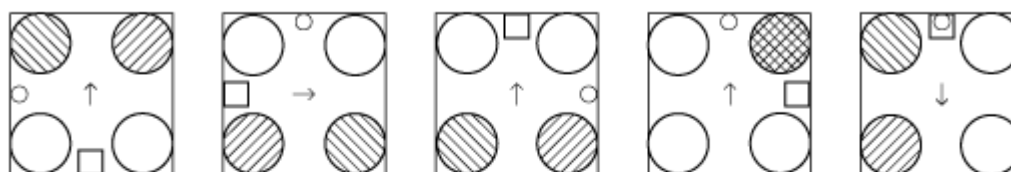
First Rule: The scales are tipped fully to the left, then straight, then tipped fully to the right, then straight. This sequence then repeats.

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

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

Fourth Rule: The cross hatching of any triangles being 'weighed' is the opposite of that of the support.

Question 10



The correct answer is C

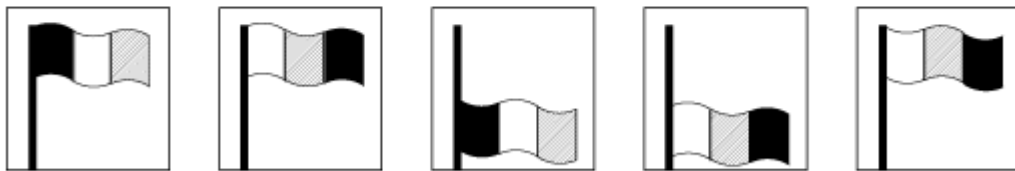
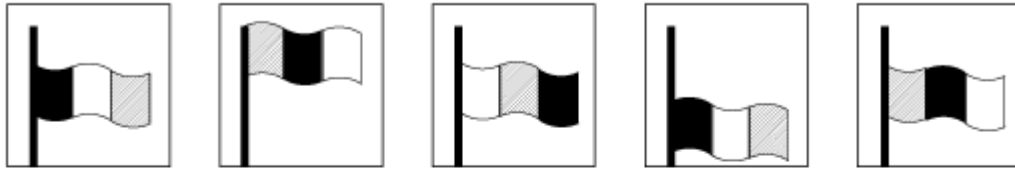
First Rule: The downward sloping cross-hatching follows the sequence top left circle, bottom right circle, bottom left circle, top right circle. This sequence then repeats.

Second Rule: The upward sloping cross-hatching follows the sequence top right circle, bottom left circle, bottom right circle. This sequence then repeats.

Third Rule: The arrow points to where the small circle will be in the next figure.

Fourth Rule: The square is in the position occupied by the small circle in the previous figure.

Question 11



A

B

C

D

E

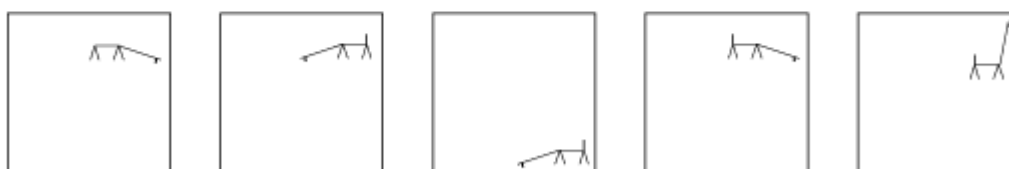
The correct answer is B

First Rule: 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.

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

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

Question 12



A

B

C

D

E

The correct answer is D

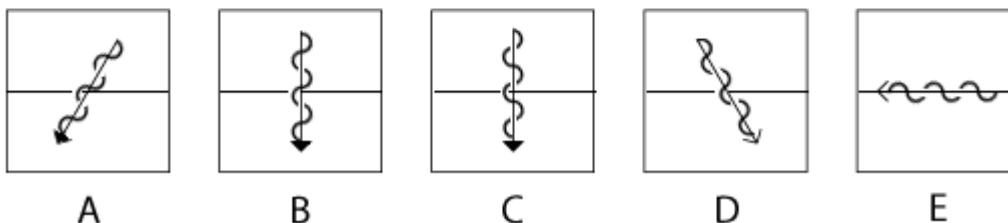
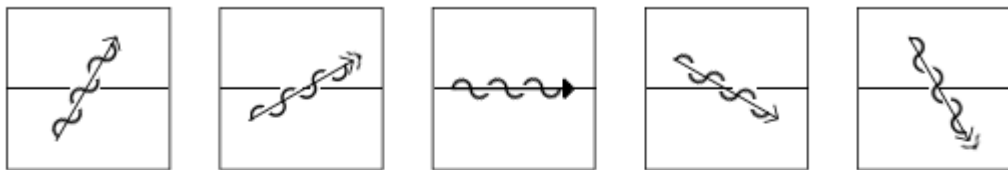
First Rule: The matchstick giraffe visits the corners in the order top left, top right, bottom left, bottom right. The sequence then repeats.

Second Rule: The matchstick giraffe faces right when it is at the top and left when it is at the bottom.

Third Rule: The giraffe's neck alternates between being up and down.

Fourth Rule: The giraffe's tail points horizontally, then at 45° , then vertically. The sequence then repeats.

Question 13



The correct answer is C

First Rule: The direction of the arrow rotates by 30° each time.

Second Rule: Following it in the direction of the arrow, the wavy line alternates between crossing in front of the straight line first and crossing behind it first.

Third Rule: The horizontal line passes behind the wavy line but crosses in front of the straight line.

Fourth Rule: The arrow head is a V shape, then a double V, then a solid triangle. This sequence then repeats.

Question 14



A

B

C

D

E

The correct answer is A

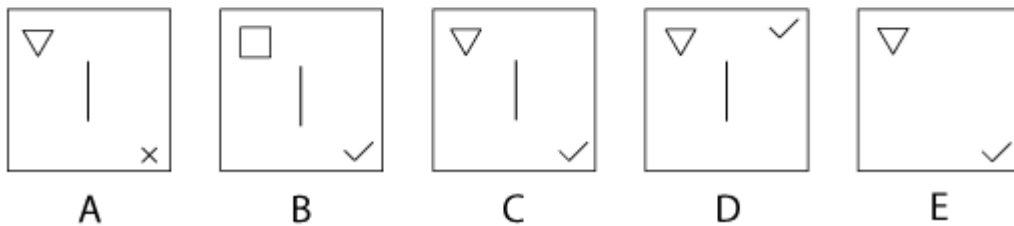
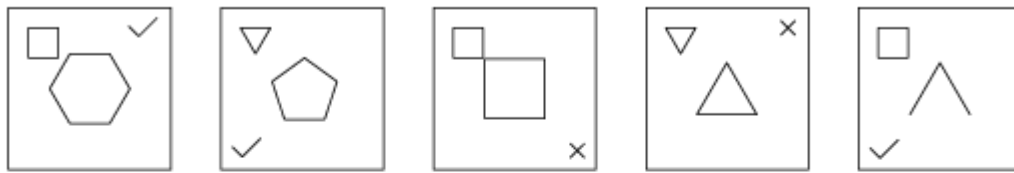
First Rule: The door moves to the right, centre, left then centre, always in line with the window immediately above it, and then the pattern repeats.

Second Rule: First only upper storey windows are leaded, then only the lower storey windows are leaded, then all windows are leaded. This pattern then repeats.

Third Rule: Starting at the bottom right window, the figure visits each window in turn in an anticlockwise direction.

Fourth Rule: The house alternates between not having a chimney stack and having a chimney stack.

Question 15



The correct answer is C

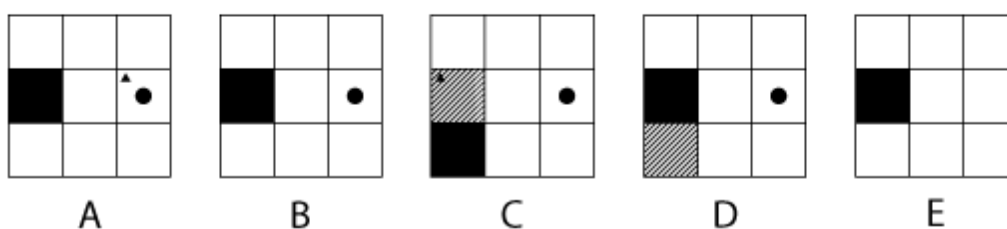
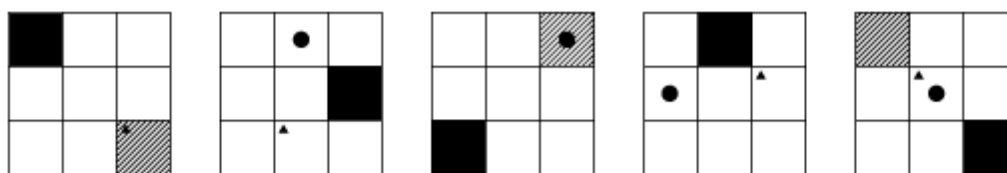
First Rule: The shape in the centre comprises 1 fewer straight line every time.

Second Rule: The shape in the top left alternates between being a triangle and being a square.

Third Rule: There is a cross when both shapes have the same number of sides, and a tick when they have different numbers of sides.

Fourth Rule: The location of the cross or tick moves from the top right to bottom left to bottom right, and the pattern then repeats.

Question 16



The correct answer is B

First Rule: Each step, the shaded square moves 3 squares clockwise round the edge of the figure.

Second Rule: Each step, the cross-hatching moves 1 square anticlockwise round the edge of the figure, disappearing behind the shading when the two coincide.

Third Rule: The circle (which starts behind the shaded square in figure 1) moves 1 square left to right, starting again at the left of the figure when it drops down a row.

Fourth Rule: The triangle moves 1 square right to left, starting again at the right of the figure when it goes up a row, and disappearing behind the shading when they coincide.



Abstract Reasoning

Test 5

Question Booklet

Instructions

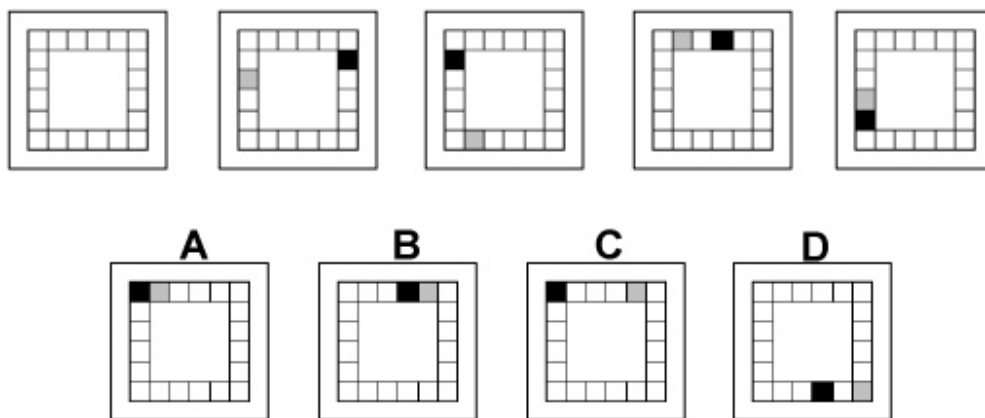
This Abstract reasoning test comprises 16 questions. You will have 16 minutes in which to correctly answer as many as you can.

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 replaces the missing figure in the sequence.

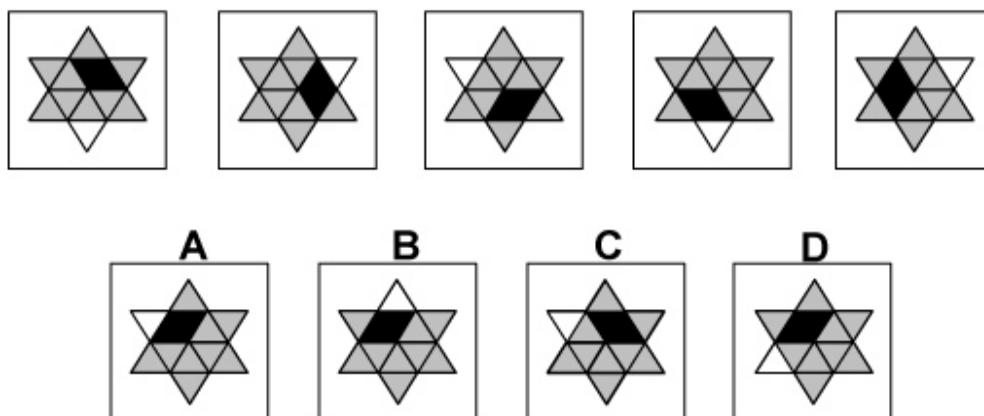
You will have to work quickly and accurately to perform well in this test. It is recommended to keep working until the time limit is up.

Try to find a time and place where you will not be interrupted during the test. When you are ready turn over the page.

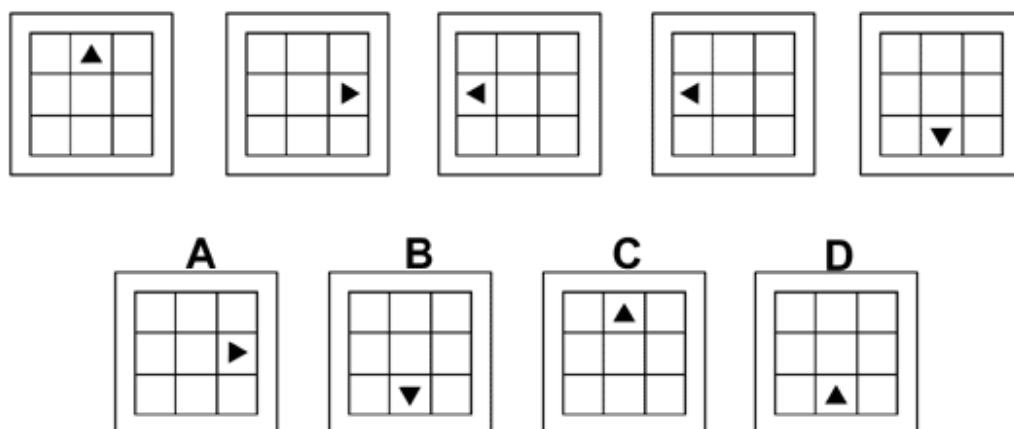
Question 1



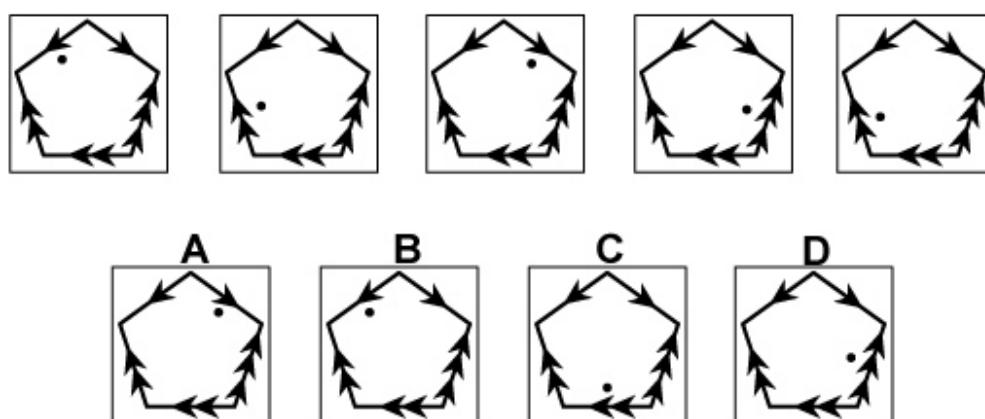
Question 2



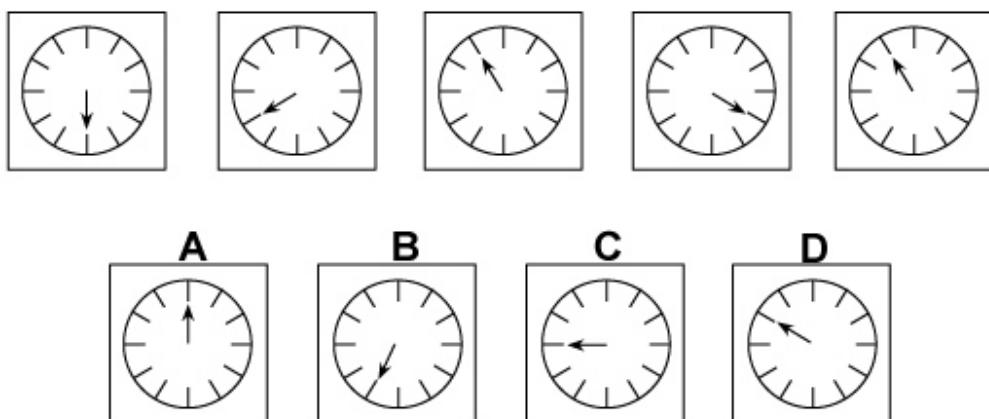
Question 3



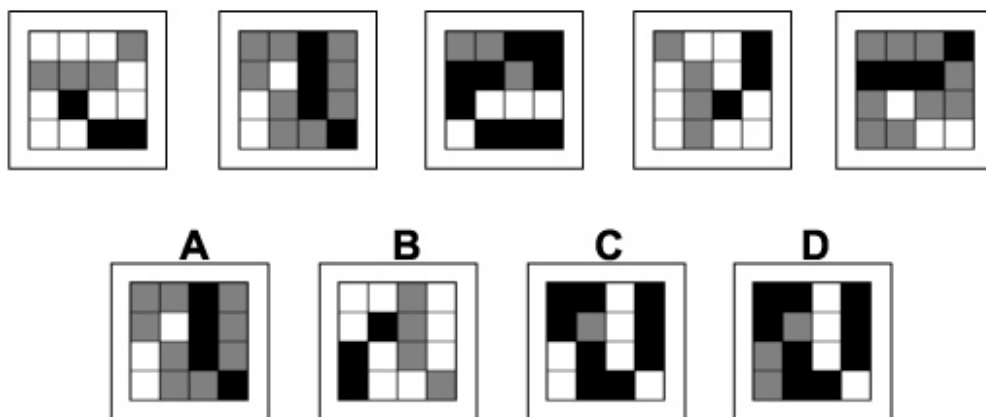
Question 4



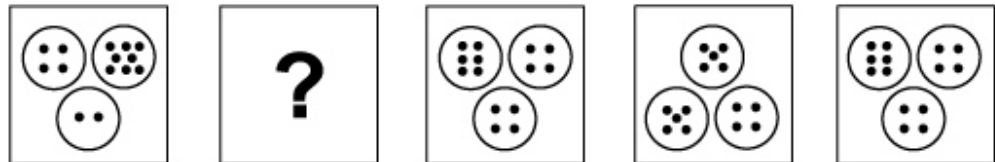
Question 5



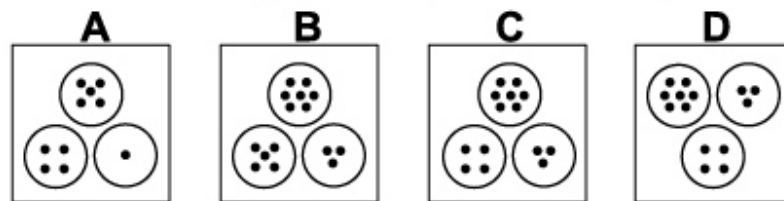
Question 6



Question 7



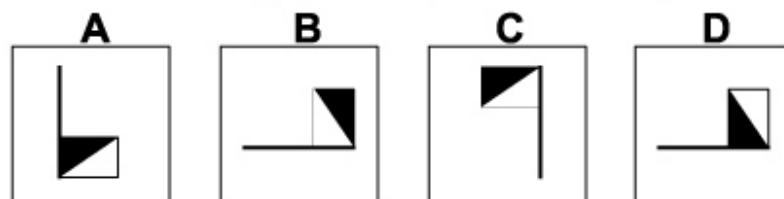
Which of the following replaces the question mark in the sequence?



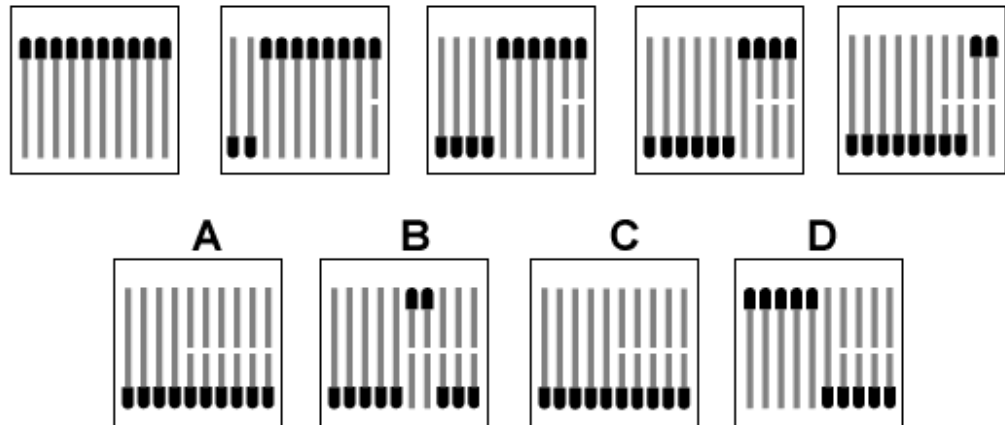
Question 8



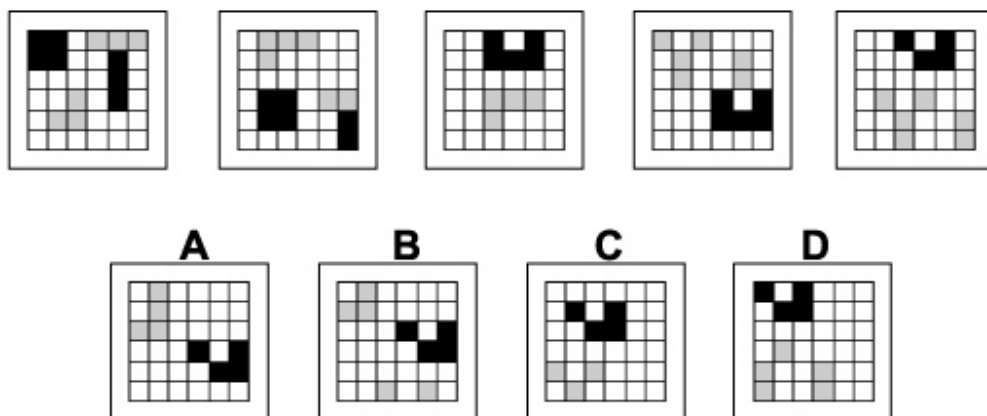
Which of the following replaces the question mark in the sequence?



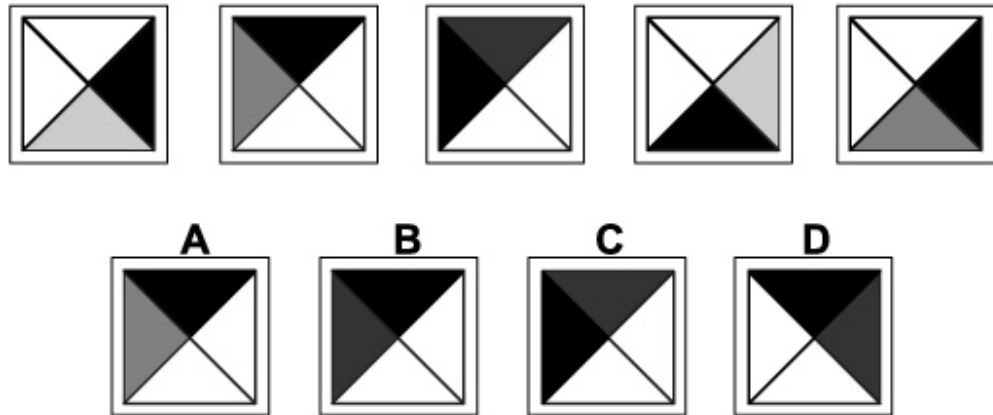
Question 9



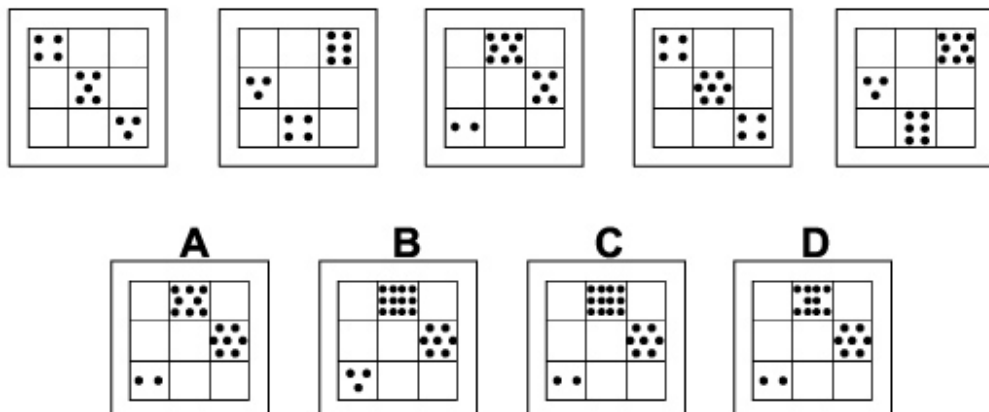
Question 10



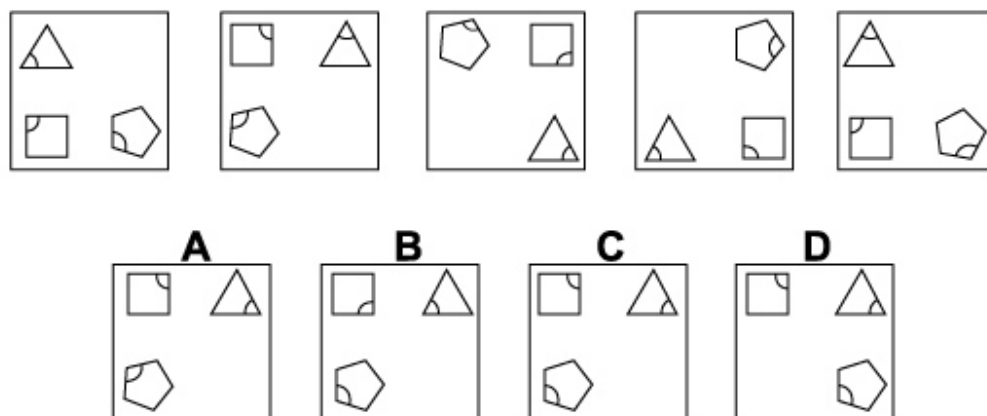
Question 11



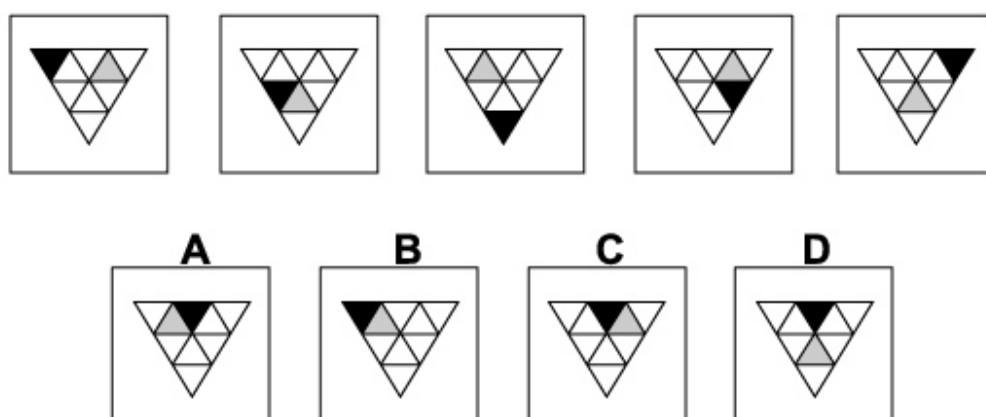
Question 12



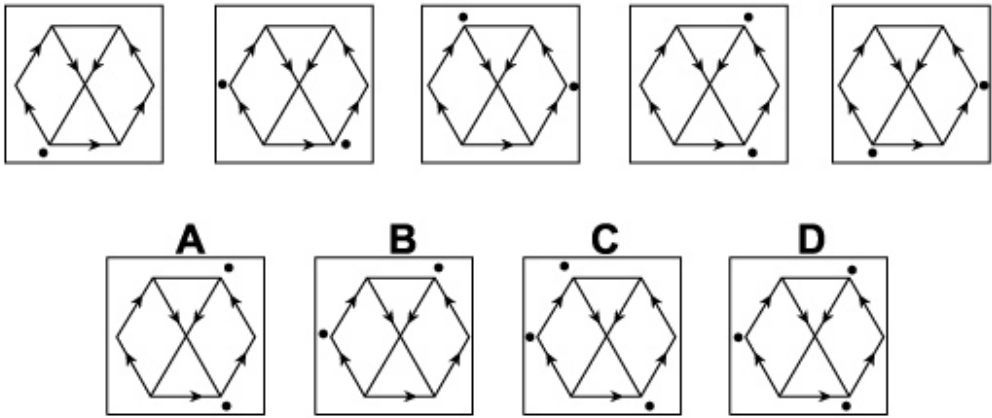
Question 13



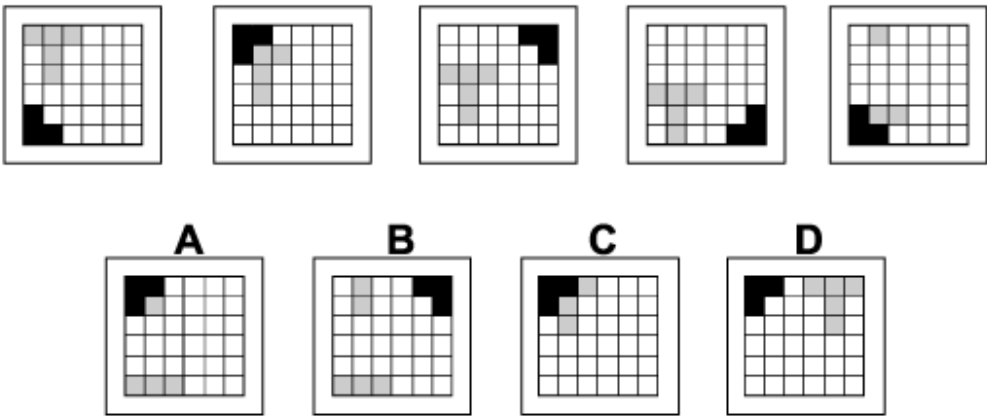
Question 14



Question 15



Question 16





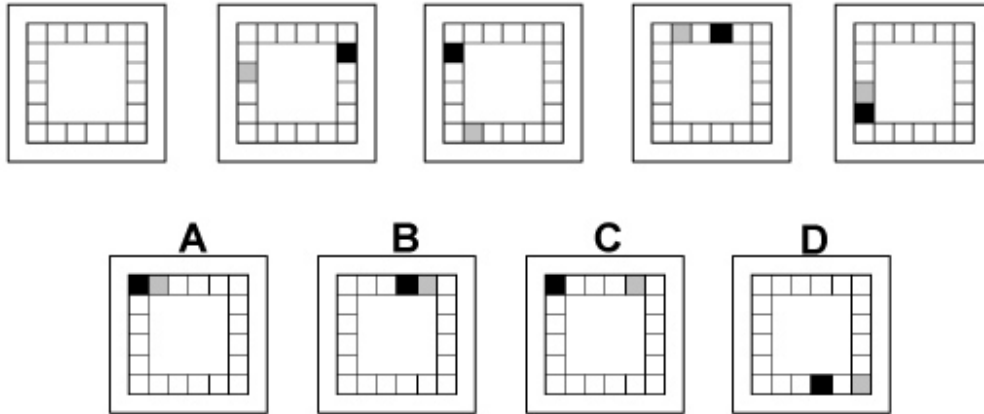


The screenshot shows a web-based test interface. On the left, there is a grid of 12 small square icons, each containing a different geometric shape. On the right, there is a text area with a question and four multiple-choice options labeled A, B, C, and D. Below the options are two buttons labeled 'Previous' and 'Next'.

Abstract Reasoning
Test 5

Solution Booklet

Question 1



Solution: C

Explanation:

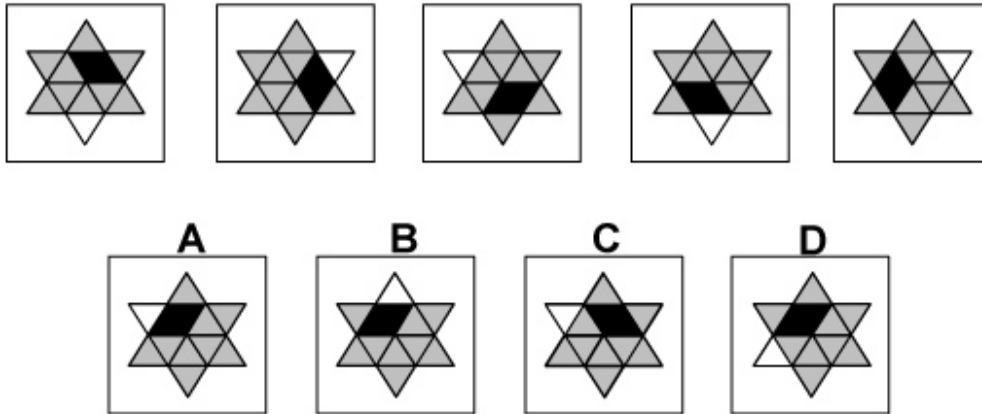
In this question there is a black square and a grey square that move around the perimeter of the grid each according to its own rule.

The black square moves alternately 4 places clockwise and 7 places anticlockwise.

The grey square moves alternately 7 places clockwise and 4 places anticlockwise.

To find the next diagram in the sequence, therefore, the black square must move 4 places clockwise and the grey square must move 7 places clockwise. The correct answer, therefore, is C.

Question 2



Solution: A

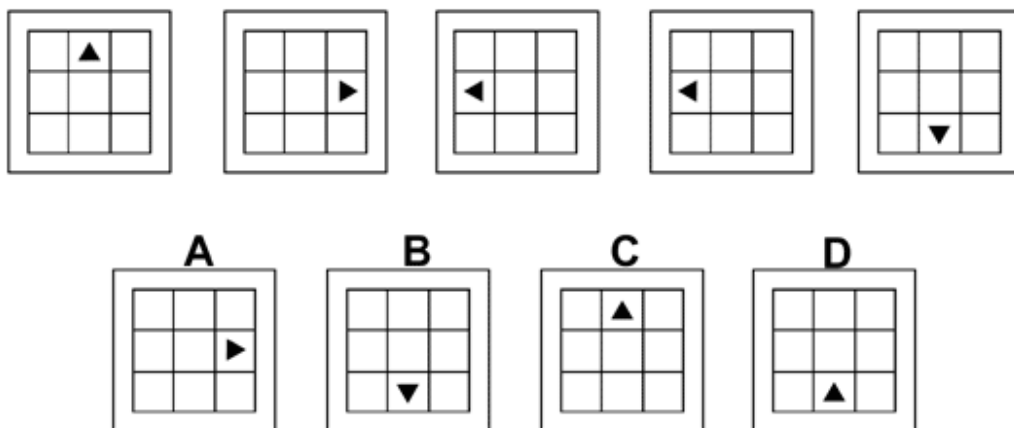
Explanation:

In this question there is a grid of equilateral triangles in the shape of a star, mostly coloured grey, but with two adjacent black triangles (making a diamond shape) and one white triangle. The diamond shape and the white triangle each moves according to its own rule.

The black diamond moves around the inner hexagon of the star, rotating each time by 60° clockwise. Following this rule, for the next diagram of the sequence, the diamond should rotate to the two triangles in the top left corner of the hexagon. The correct answer, therefore, could be A, B or D.

The white triangle moves around the outer perimeter of the star, rotating by 120° anticlockwise each time. Following this rule, for the next diagram in the sequence, the white triangle should rotate to the top left point of the star. The correct answer, therefore, is A.

Question 3



Solution: B

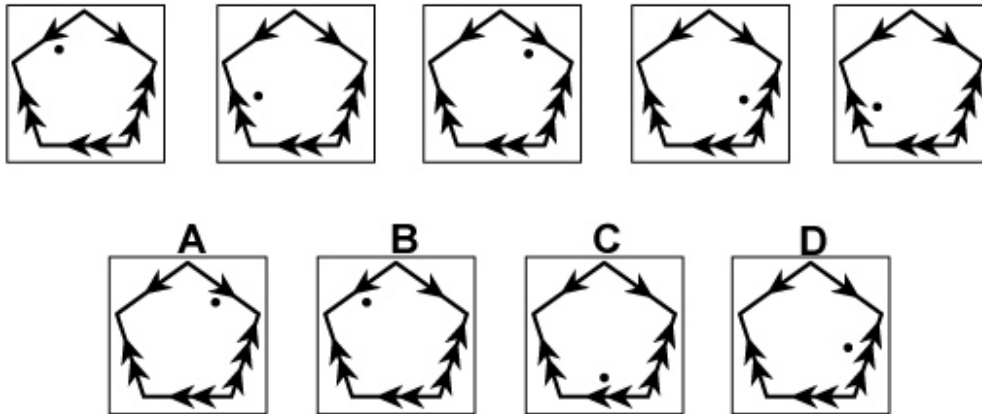
Explanation:

In this question the black triangle is reflected alternatively in three axes of symmetry:

1. The diagonal stretching from the bottom left corner of the grid to the top right corner.
2. The vertical line through the centre of the grid.
3. The horizontal line through the centre of the grid.

Following these rules, to obtain the next diagram in the sequence, the next reflection should be type 2. The correct answer, therefore, is B.

Question 4



Solution: A

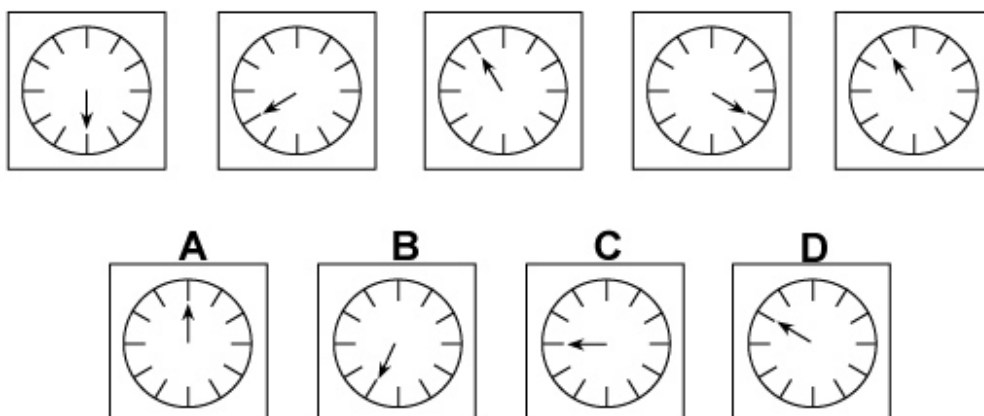
Explanation:

In this question the dot rotates around the inside of the pentagon. The direction of the arrow from its previous position indicates whether the rotation is clockwise or anticlockwise. The number of arrowheads on the arrow of its previous position indicates the number of fifths of a complete turn by which it should rotate.

For the next diagram in the sequence, therefore, it should rotate two fifths of a complete turn in a clockwise sense.

The correct answer, therefore, is A.

Question 5

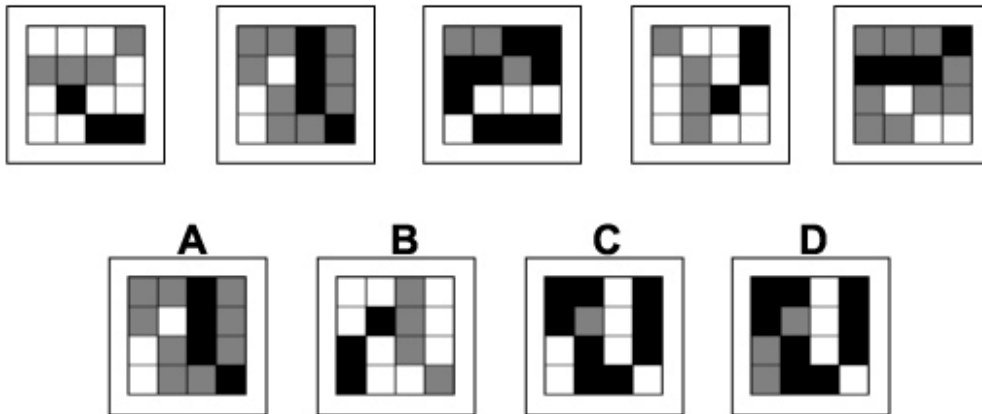


Solution: D

Explanation:

In this question, the hand rotates clockwise around the clock face. The numbers of places it rotates successively are the numbers of the sequence of prime numbers - 2, 3, 5, 7 etc. The next prime number in the sequence is 11, so the next diagram in the sequence must be D (where the hand of the clock has progressed by 11 places clockwise).

Question 6



Solution: D

Explanation:

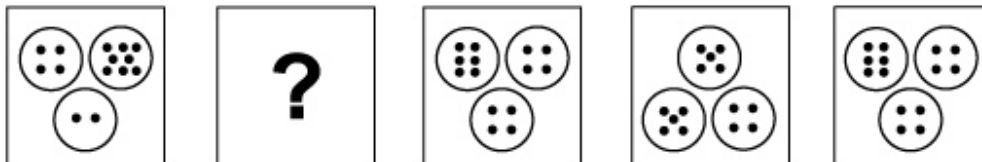
In this question there are two rules to follow that must be applied at the same time.

The first rule is that the grid should be rotated by 90° clockwise each time.

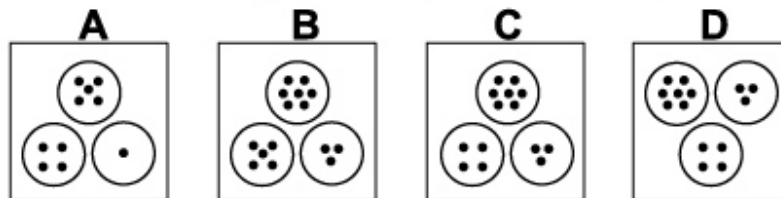
The second rule is that the colours of the squares change according to the rule - black changes to white, white changes to grey and grey changes to black.

When these two rules are applied at the same time, then the next diagram in the sequence must be D.

Question 7



Which of the following replaces the question mark in the sequence?



Solution: C

Explanation:

In this question there are two rules to follow.

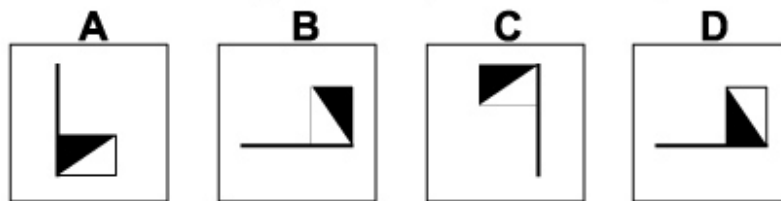
The first rule concerns the circles which rotate by 60° anticlockwise each time. Following this rule, the missing diagram of the sequence could be A, B or C.

The second rule concerns the number of dots. The circle with four dots always has four dots. The circle that starts with two dots increases by one dot each time. The circle that starts with eight dots decreases by one each time. Following this rule, the missing diagram of the sequence must be C.

Question 8



Which of the following replaces the question mark in the sequence?



Solution: B

Explanation:

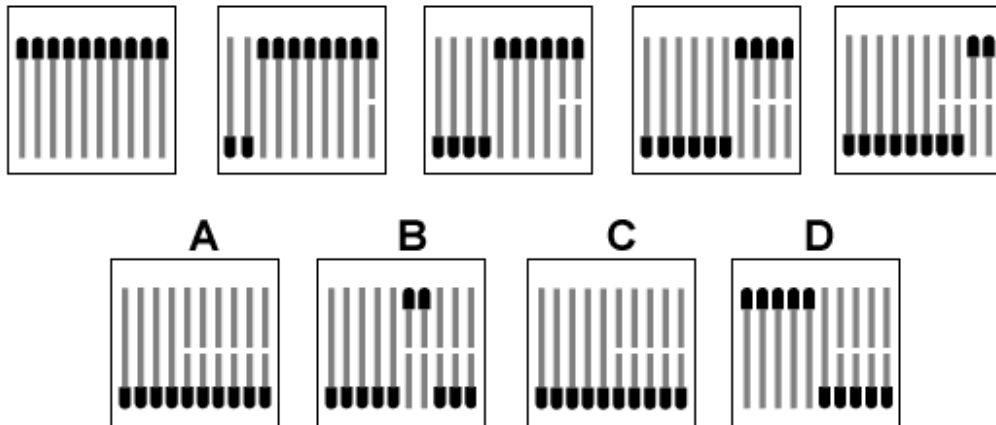
In this question there are two rules to follow that are applied one after the other.

The first rule is that the flag is reflected in the vertical axis.

The second rule is that the flag is rotated by 90° clockwise.

To find the missing diagram of the sequence, the second rule should be applied. The correct answer, therefore, is B.

Question 9



Solution: C

Explanation:

In this question there are two rules to follow

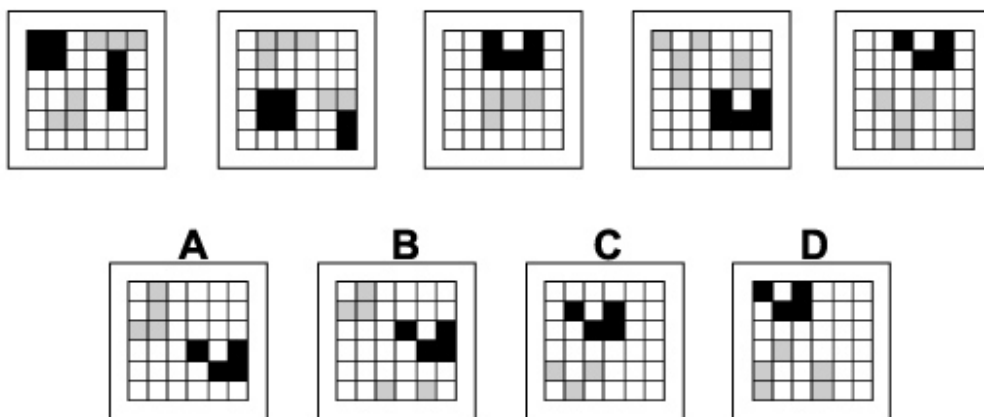
The first rule is that each time the number of inverted matches, starting from the left, increases by two.

The second rule is that the number of separated matches, starting from the right, increases by one.

Therefore the next diagram in the sequence will have ten inverted matches and five separated matches.

The correct answer is C.

Question 10



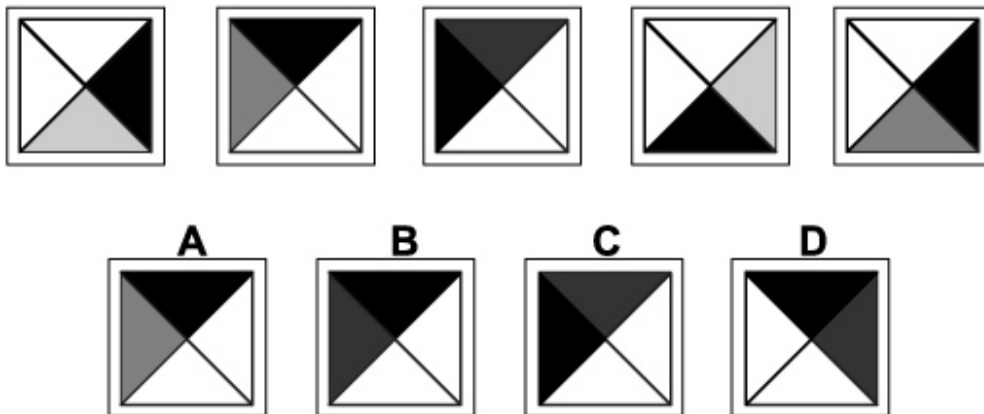
Solution: A

Explanation:

In this question there is a grid of squares.

There is a single rule to follow - each time the squares of the grid are translated 1 square to the right and three squares down. Following this rule, the next diagram of the sequence must be A.

Question 11



Solution: B

Explanation:

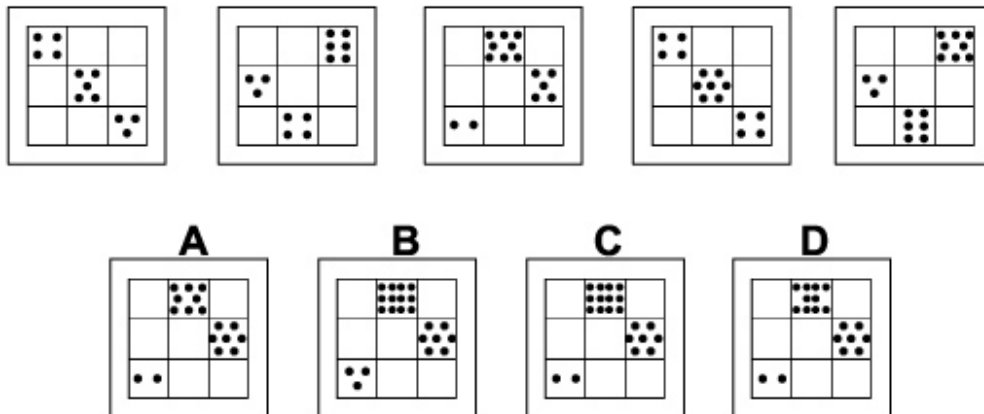
In this question, there is a black triangle and a grey triangle which each has its own rule.

The black triangle always rotates by 90° anticlockwise. Following this rule, for the next diagram in the sequence, the black triangle should be in the top quadrant of the diagram. The correct answer, therefore, could be A, B or D.

The grey triangle also rotates, but by 90° clockwise each time. However, the shade of the grey triangle also changes from light grey to medium grey to dark grey, back to light grey again.

Following this rule, for the next diagram of the sequence, the grey triangle should be in the left quadrant of the diagram and should be dark grey. The correct answer, therefore, is B.

Question 12



Solution: C

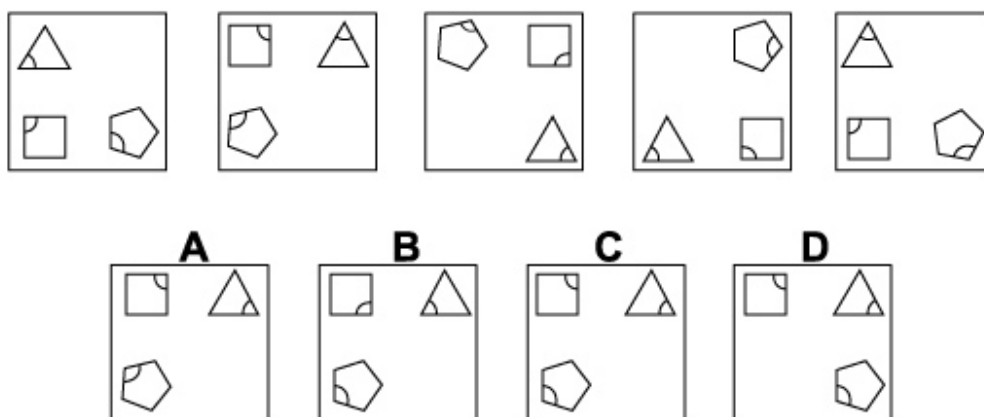
Explanation:

In this question there are two rules that apply to squares with dots as they move down the columns of the grid.

First rule: The squares in the first and second rows of the grid move down one place and the number of dots decreases by one. Following this rule, for the next diagram of the sequence, there should be two dots in the first column, third row and seven dots in the third column, second row. The correct answer, therefore, could be A, C or D.

Second rule: The squares in the bottom row of the grid move to the top row and the numbers of dots are doubled. Following this rule, for the next diagram in the sequence, there should be twelve dots in the first row, second column. The correct answer, therefore, is C.

Question 13



Solution: C

Explanation:

In this question everything rotates clockwise.

The equilateral triangle rotates about its own centre by 120° each time.

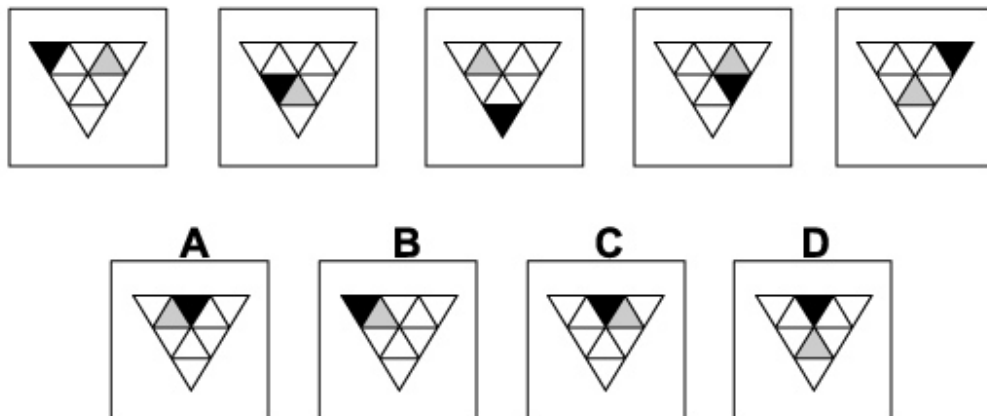
The square rotates about its own centre by 90° each time.

The regular pentagon rotates about its own centre by 108° each time.

Simultaneously the three shapes rotate by 90° each time about the centre of the large square.

Following these rules, the next diagram of the sequence must be C.

Question 14



Solution: A

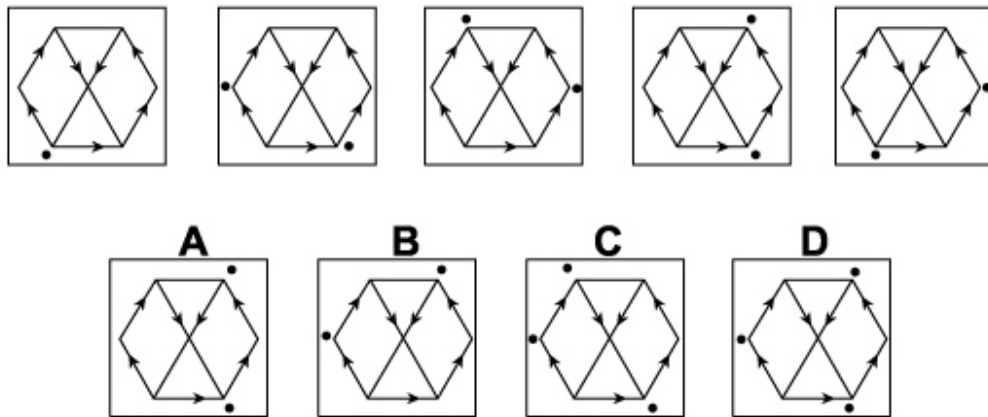
Explanation:

In this question there is a big equilateral triangle divided up into a grid of nine equilateral triangles, one of which is shaded black and one shaded grey. The black and grey triangle each moves according to its own rule.

The black triangle moves one place anticlockwise around the six small triangles that share an edge with the big triangle. Following this rule, in the next diagram of the sequence, the triangle in the centre at the top should be shaded black. The correct answer, therefore, could be A, C or D.

The grey triangle moves one place clockwise around the three small triangles that do not share an edge with the big triangle. Following this rule, the grey triangle will move to the top left of the three. The correct answer, therefore, is A.

Question 15



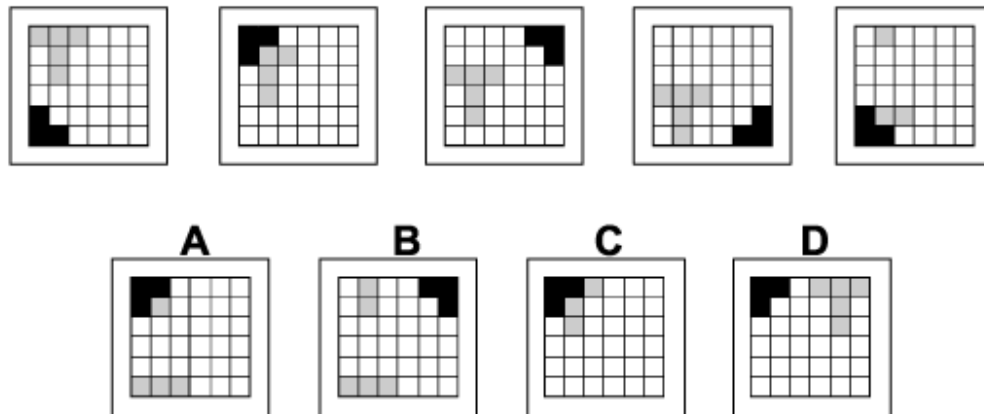
Solution: D

Explanation:

In this question there is a network of arrows around five edges and two diagonals of a hexagon. The dot moves in the direction of the arrow to the next vertex of the hexagon. However, if there are two possible routes, the dot multiplies to two dots with one dot following each of the possible routes.

Following this rule, the dot in the bottom left of the hexagon in the fifth diagram will multiply so that, in the next diagram of the sequence, there will be three dots altogether. The correct answer, therefore, is D.

Question 16



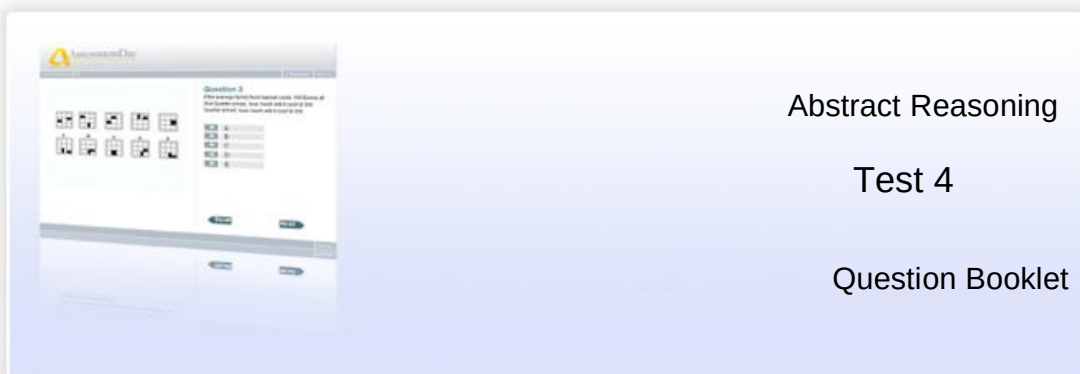
Solution: A

Explanation:

In this question there is a grid of squares with a black L-shape and a grey coloured T-shape.

The L-shape rotates around the corners of the grid by 90° clockwise each time. Following this rule, the correct answer could be A, C or D.

The T-shape moves down one place each time. When the T-shape (or part of the T-shape) reaches the bottom row, it moves in the next diagram of the sequence to the top row. However, sometimes parts of the grey T-shape are obscured by the black L-shape. Following this rule, the correct answer must be A.



Abstract Reasoning

Test 4

Question Booklet

Instructions

The Abstract reasoning test comprises 16 questions. You will have 16 minutes in which to correctly answer as many as you can.

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 replaces the missing figure in the sequence.

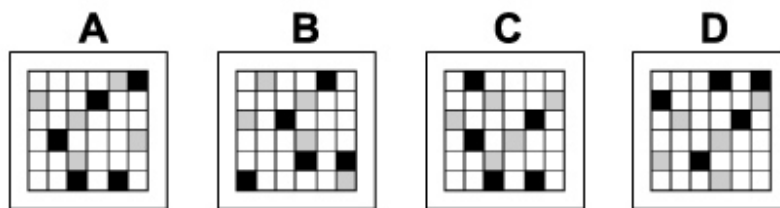
You will have to work quickly and accurately to perform well in this test. It is recommended to keep working until the time limit is up.

Try to find a time and place where you will not be interrupted during the test. When you are ready turn over the page.

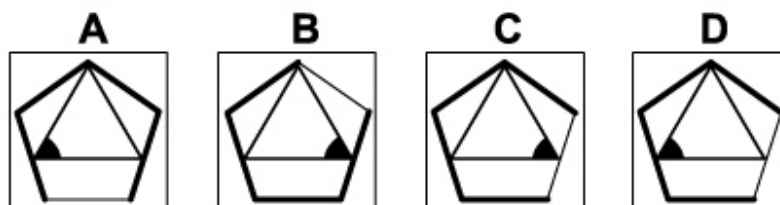
Question 1



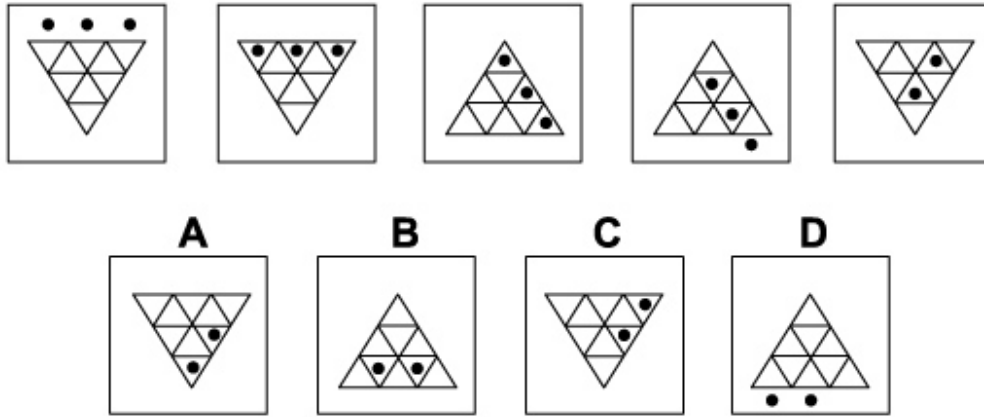
Which of the following replaces the question mark in the sequence?



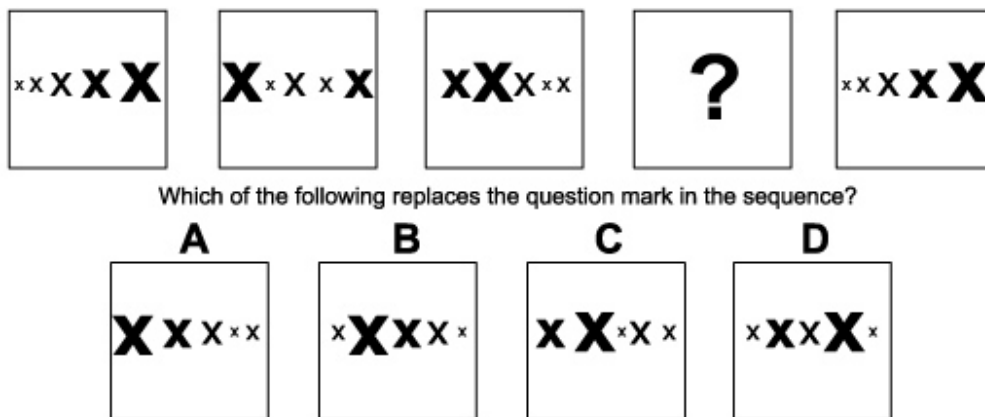
Question 2



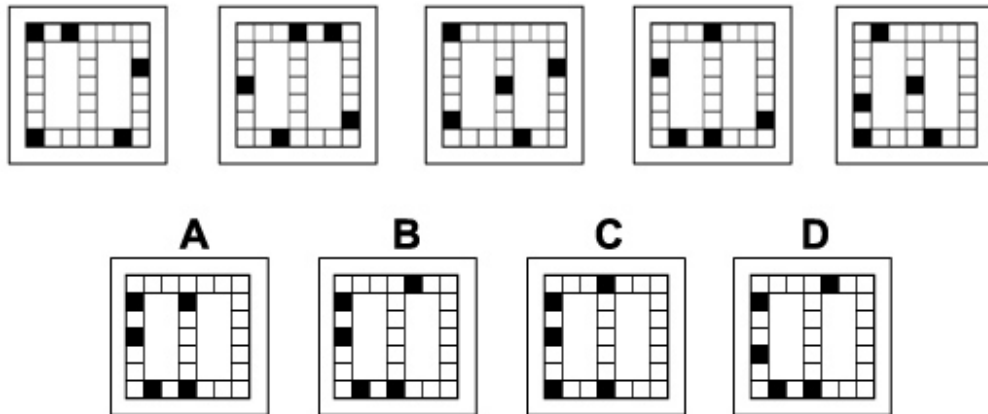
Question 3



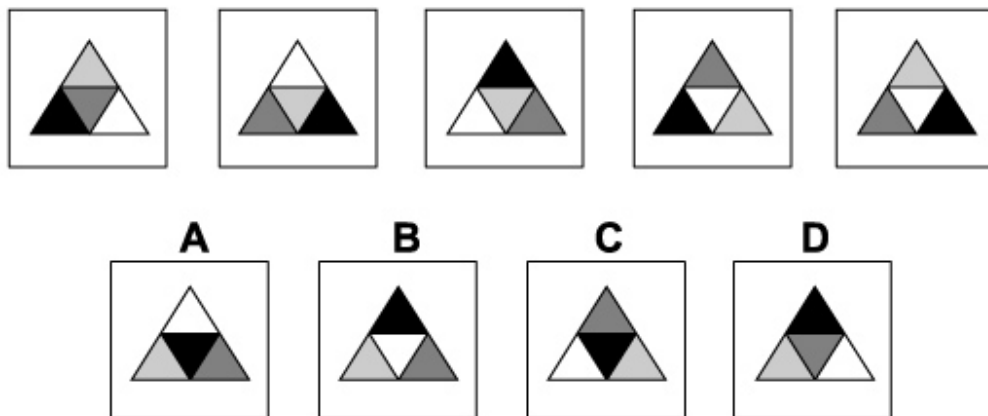
Question 4



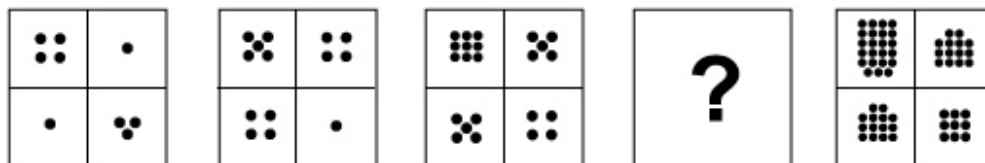
Question 5



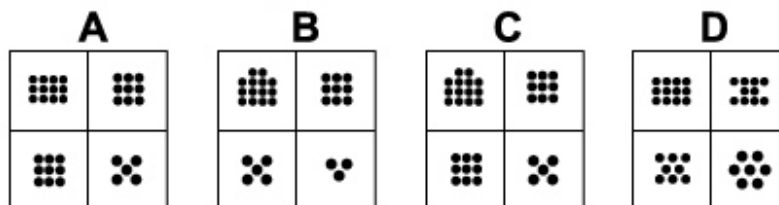
Question 6



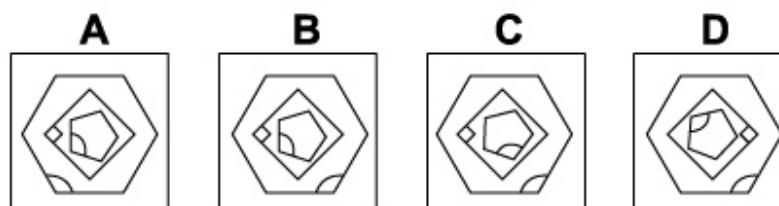
Question 7



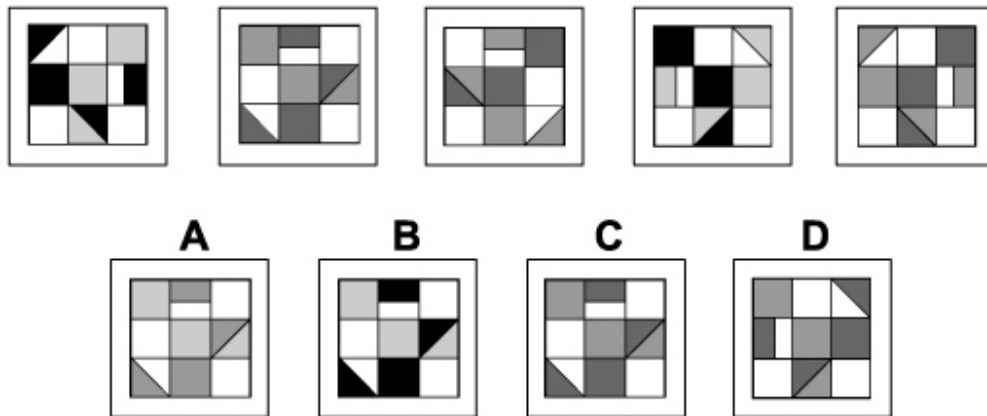
Which of the following replaces the question mark in the sequence?



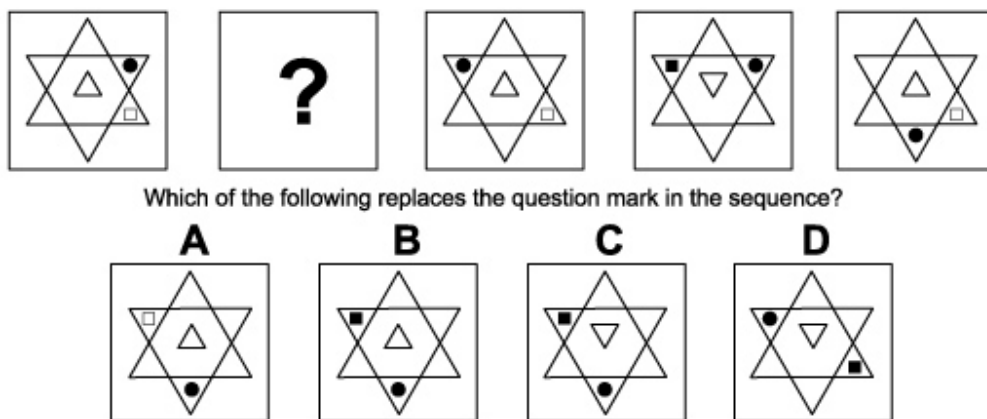
Question 8



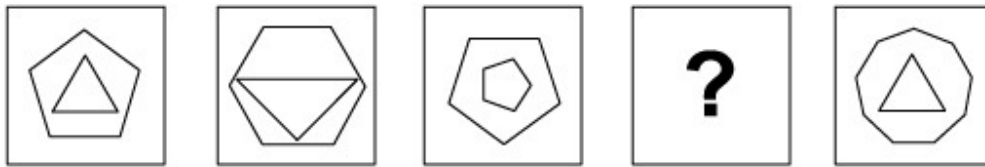
Question 9



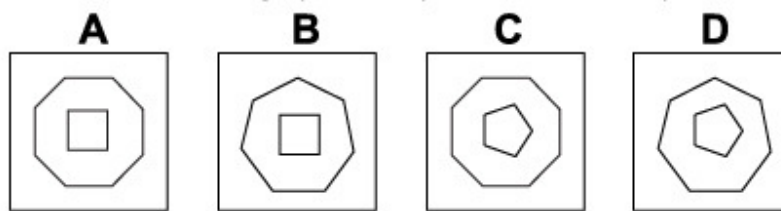
Question 10



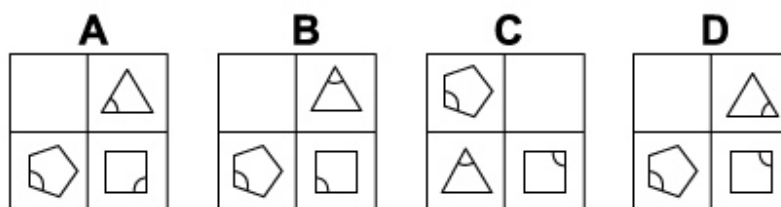
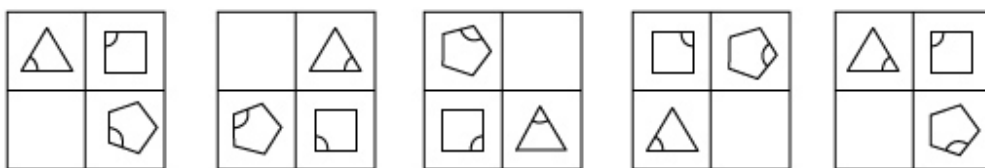
Question 11



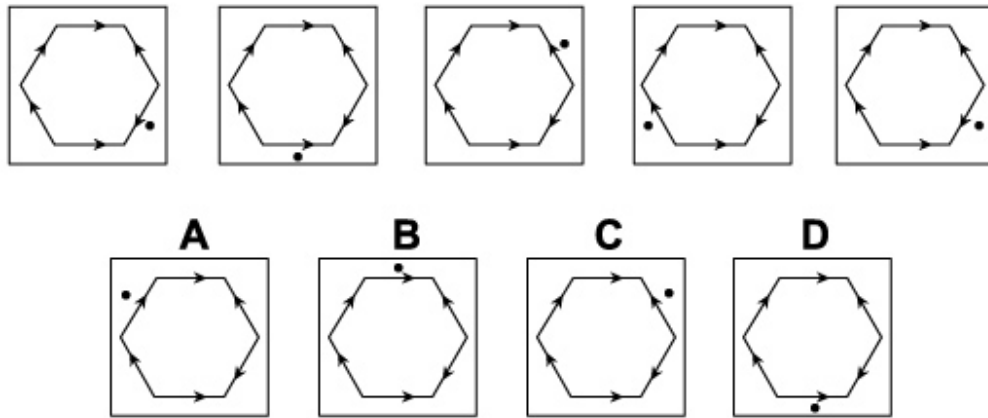
Which of the following replaces the question mark in the sequence?



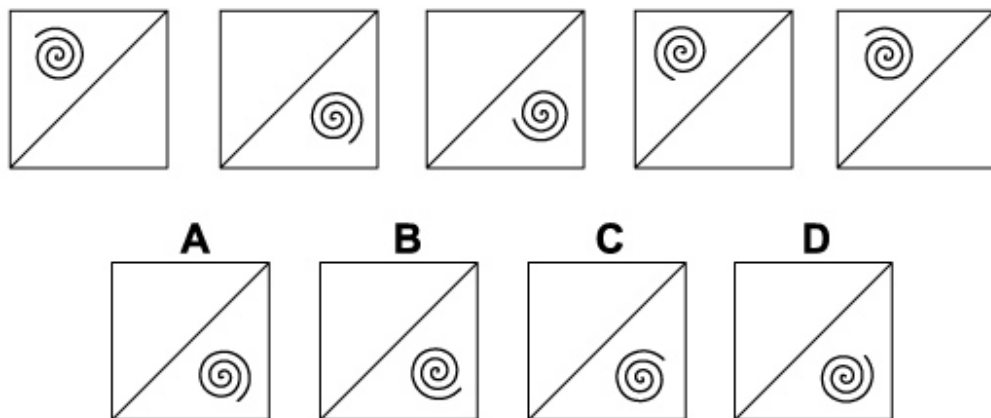
Question 12



Question 13



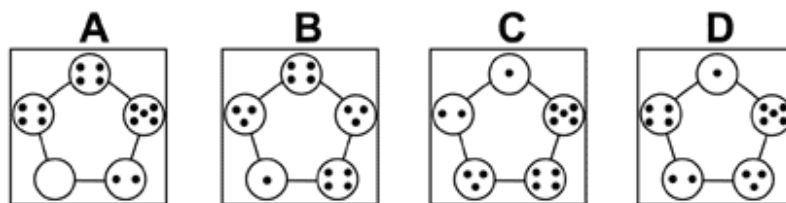
Question 14



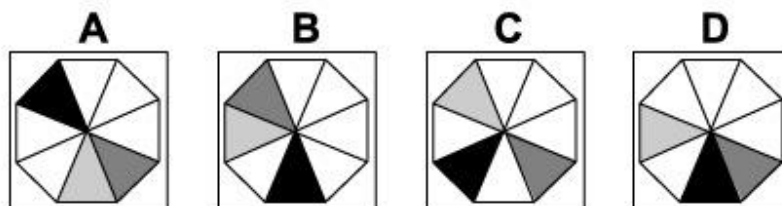
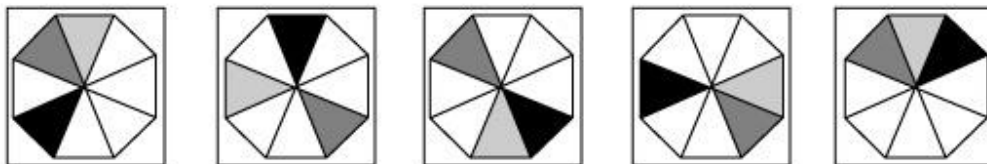
Question 15



Which of the following replaces the question mark in the sequence?



Question 16





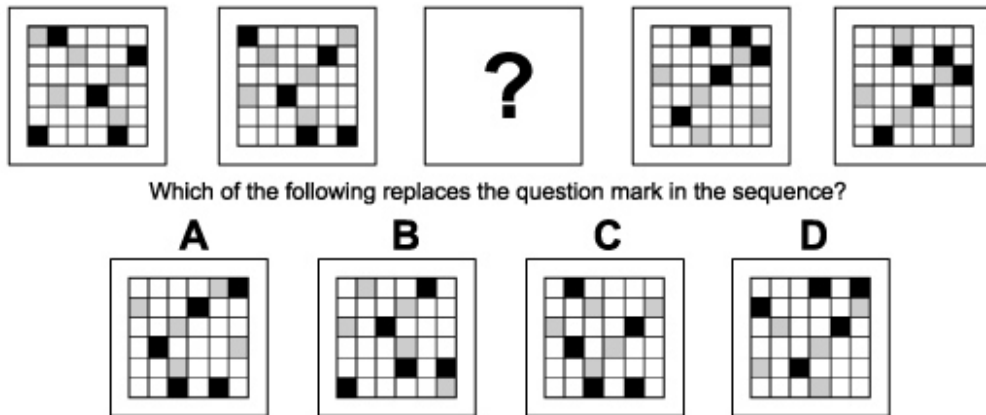


The screenshot shows a web-based test interface. On the left, there is a grid of shapes. On the right, there is a question titled "Question 2" with a description: "A sequence of shapes is shown. Which one of the shapes below, when placed with the rest, would make the sequence a set of 10?" Below the question, there are four radio button options: A, B, C, and D. At the bottom, there are buttons for "Previous" and "Next".

Abstract Reasoning
Test 4

Solution Booklet

Question 1



Solution: D

Explanation:

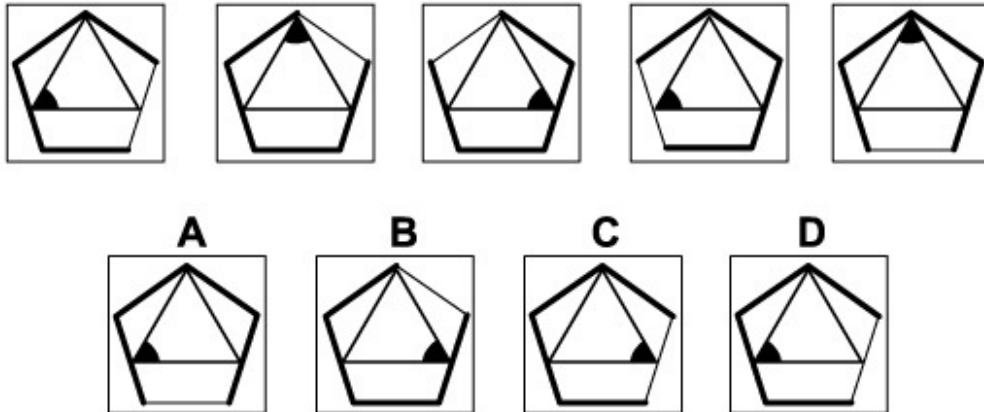
In this question there are two rules that are applied alternately.

The first rule is that all squares are moved one place to the left, except those in the left column which are moved to the right column.

The second rule is that all squares are moved one place down, except those in the bottom row which are moved to the top row.

To find the missing diagram of the sequence, the second rule should be applied, and the correct answer is D.

Question 2



Solution: C

Explanation:

In this question there is an equilateral triangle with a bold corner and a regular pentagon with one edge thin-lined. Each shape follows its own rule.

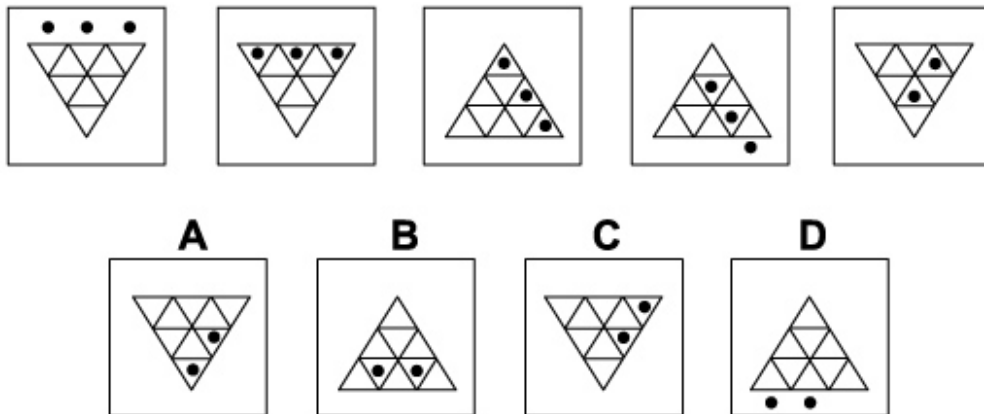
The equilateral triangle rotates by 120° clockwise each time. Following this rule, the correct answer could be B or C.

The regular pentagon rotates by 72° anticlockwise each time.

Following this rule, the correct answer could be C or D.

When both rules are applied simultaneously, therefore, the correct answer must be C.

Question 3



Solution: A

Explanation:

In this question there are three balls that move into, around and out of a grid of equilateral triangles.

There are two rules to follow that are applied alternately.

The first rule is that the balls drop down through a horizontal edge of a triangle. If a ball drops down outside the grid, it is lost and doesn't appear in the next diagram of the sequence.

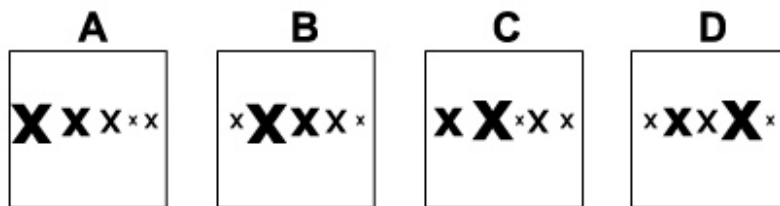
The second rule is that the triangular grid rotates through 120° clockwise.

For the next diagram of the sequence, the first rule should be applied and the correct answer is A.

Question 4



Which of the following replaces the question mark in the sequence?



Solution: D

Explanation:

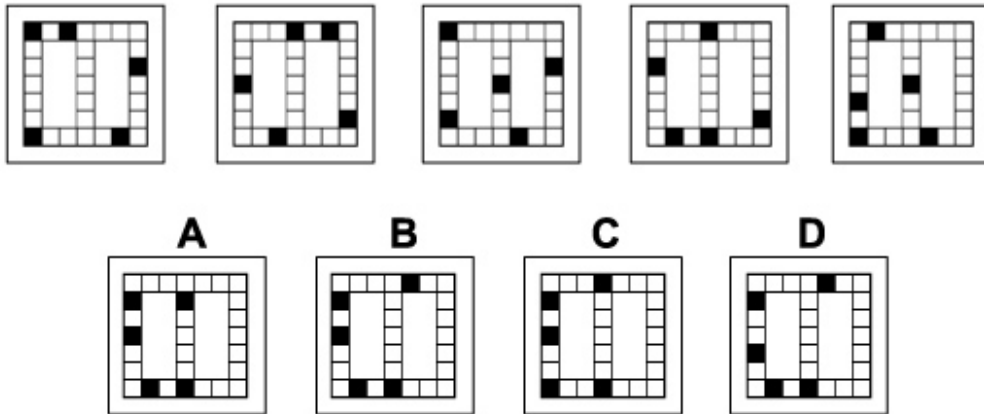
In this question there are 5 different sized letter X's. There are two rules to follow that are applied simultaneously.

The first rule is that the X's in the second and third positions (counting from the left) change positions. The second rule is that the fifth X moves to the first position and the others all move along one position towards the right.

These two rules are applied simultaneously.

Following these rules, the missing diagram of the sequence is D.

Question 5



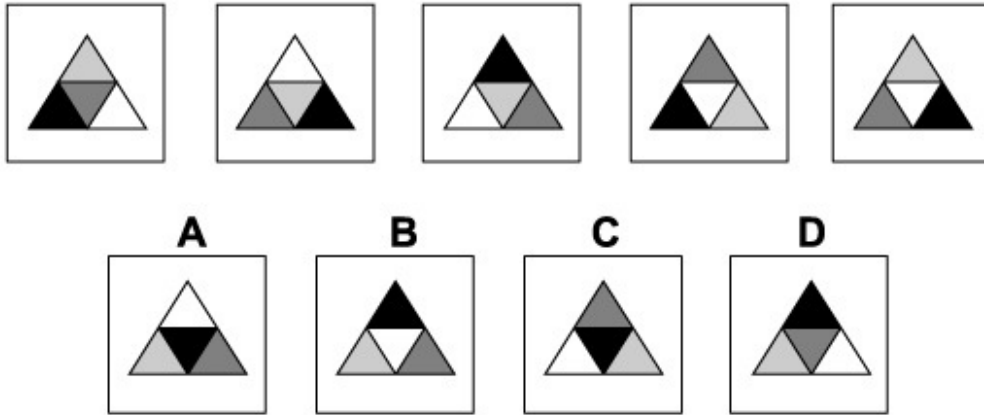
Solution: B

Explanation:

In this question the black squares move three places clockwise around the outside of the grid. The only exception is when a black square lands on the centre square at the top of the grid. In this case, in the next diagram of the sequence, it moves down the centre line of the grid by three places. When it reaches the centre square of the bottom of the grid, it then continues clockwise around the outside of the grid.

The correct answer, therefore, is B.

Question 6



Solution: A

Explanation:

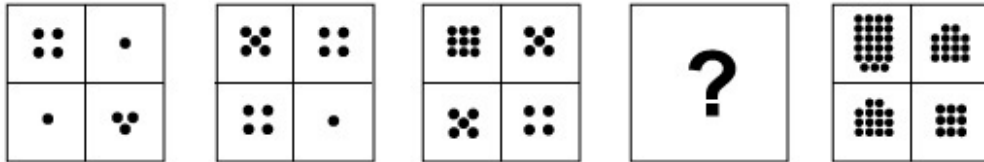
In this question there are two rules to follow that are applied alternately.

The first rule is that the colours change - black changes to dark grey, dark grey changes to light grey, light grey changes to white, and white changes to black.

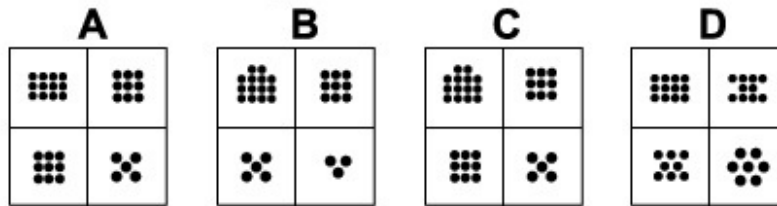
The second rule is that the triangular grid rotates by 120° anticlockwise.

To obtain the next diagram in the sequence, the first rule should be applied, and the correct answer is A.

Question 7



Which of the following replaces the question mark in the sequence?



Solution: C

Explanation:

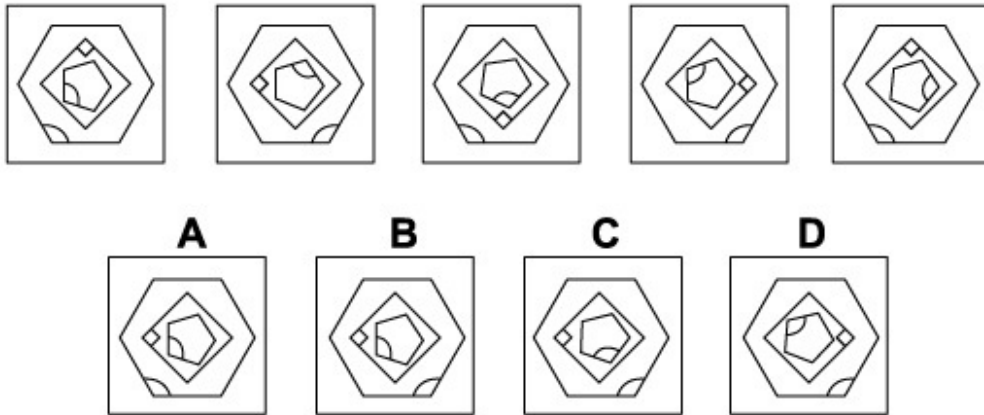
In this question there are two rules to follow that are applied simultaneously.

The first rule is that the dots in the first row move down to the second row.

The second rule is that for each column, the dots are added and the totals placed in the corresponding squares of the top row.

When these two rules are applied simultaneously, the correct diagram to replace the ? is C.

Question 8



Solution: B

Explanation:

In this question there is a regular pentagon inside a square inside a regular hexagon. Each shape follows its own rule.

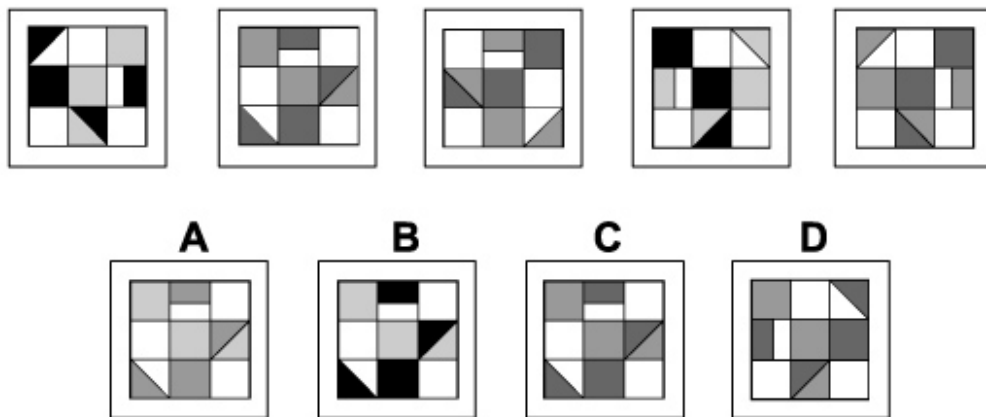
The regular pentagon rotates by 144° clockwise each time.

The square rotates by 90° anticlockwise each time.

The regular hexagon is reflected in its vertical axis of symmetry each time.

When these rules are applied simultaneously, the next diagram in the sequence is B.

Question 9



Solution: C

Explanation:

In this question, the pattern of squares and rectangles follows two rules alternately.

The first rule is a rotation of 90° anticlockwise.

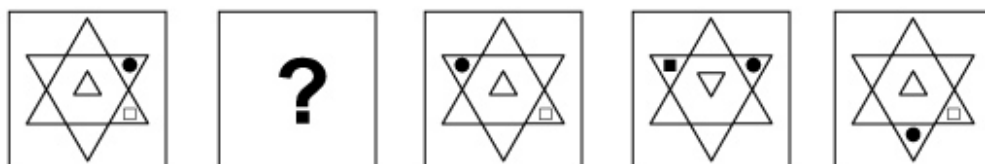
The second rule is a reflection in the vertical axis.

Following these rules, to obtain the next diagram of the sequence, the first rule should be applied next and the correct answer could be A, B or C.

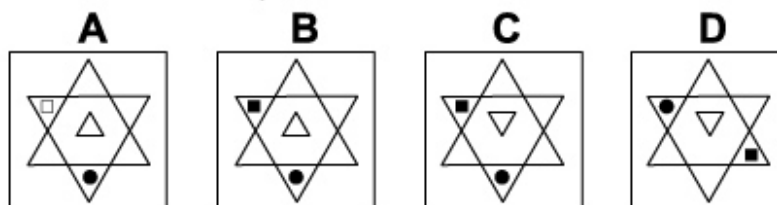
At the same time, the shading of the non-white tiles changes and follows this sequence: black changes to dark grey, changes to medium grey, changes to light grey, changes to medium grey, changes to dark grey, changes to black etc.

Following this rule, the correct answer is C.

Question 10



Which of the following replaces the question mark in the sequence?



Solution: C

Explanation:

In this question there is a triangle, a square and a dot that move around a hexagonal star. Each moves according to its own rule.

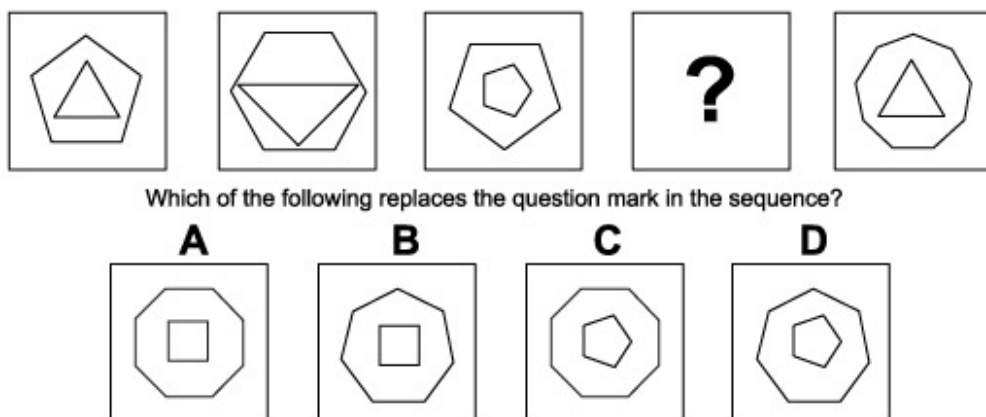
The white triangle stays in the middle of the hexagon, its colour does not change, but it is inverted from one diagram to the next.

The square moves from one triangle of the star to the opposite triangle and its colour alternates between white and black.

The dot rotates around the triangles of the star, rotating by 120° clockwise each time. Its colour does not change.

When all these rules are applied together, the missing diagram of the sequence must be C.

Question 11



Solution: B

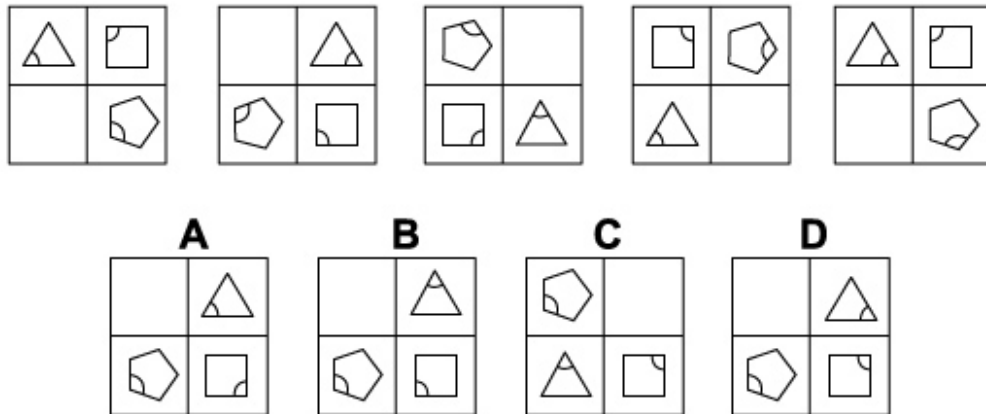
Explanation:

In this question each diagram has two polygons. The total number of sides of the two polygons increases by one each time.

For the missing diagram of the sequence, the total number of sides should be eleven.

The correct answer is B which shows a heptagon (seven sides) and a rectangle (four sides).

Question 12



Solution: B

Explanation:

In this question the three shapes - equilateral triangle, square and regular pentagon - rotate by 90° clockwise around the four positions of the grid. At the same time, each shape also rotates about its own centre.

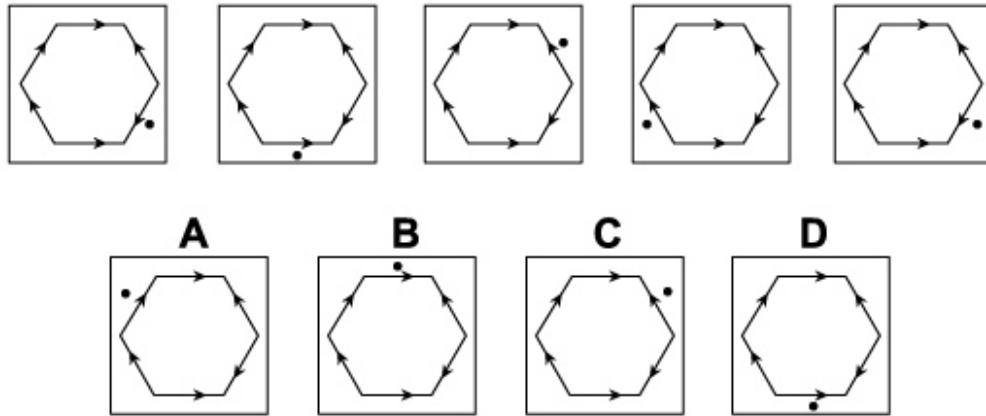
The equilateral triangle rotates by 120° anticlockwise each time.

The square rotates by 90° anticlockwise each time.

The regular pentagon rotates by 72° clockwise each time.

When all these rotations are applied simultaneously, the next diagram of the sequence must be B.

Question 13



Solution: C

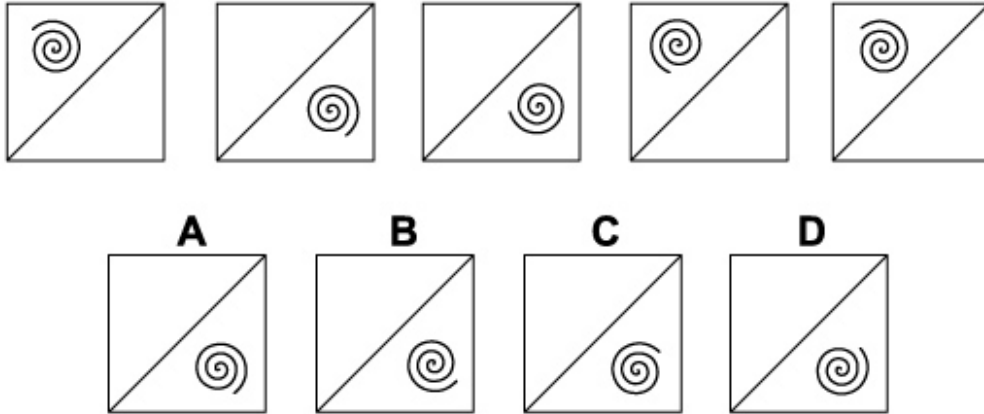
Explanation:

In this question the dot rotates around the perimeter of the regular hexagon, always rotating in the direction indicated by the arrow.

The numbers of places it rotates are: 1 the first time, 2 the second time, 3 the third time etc.

To obtain the next diagram of the sequence, therefore, the dot should rotate 5 places in the direction indicated by the arrow, which is clockwise. The correct answer is C.

Question 14



Solution: A

Explanation:

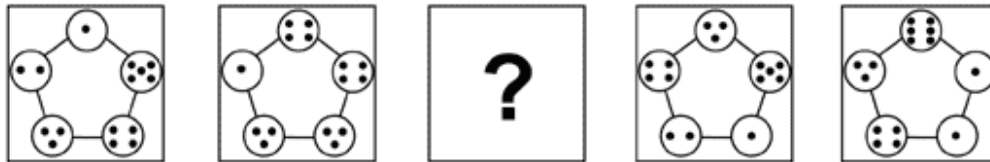
In this question there are two rules to follow that are applied alternately.

The first rule is that the spiral is reflected in the diagonal shown.

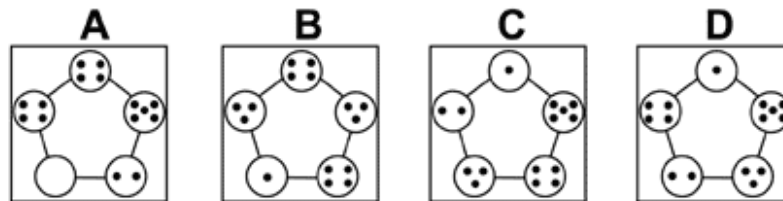
The second rule is that the spiral rotates by 90° clockwise.

To obtain the next diagram of the sequence, the first rule should be applied next and the correct answer is A.

Question 15



Which of the following replaces the question mark in the sequence?



Solution: B

Explanation:

In this question there are three rules to follow that must be applied simultaneously:

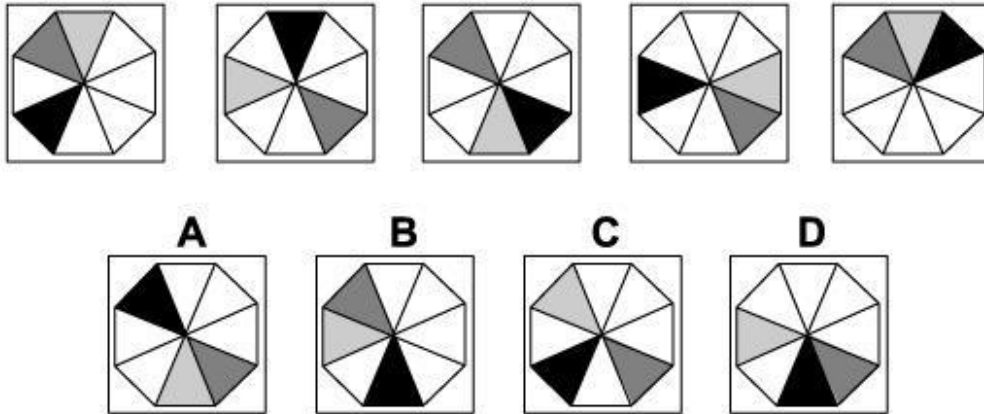
The whole shape is rotated by 72° anticlockwise each time.

The number of dots in the circle which starts in the 9 o'clock position increases by one each time.

The number of dots in the circle which starts in the 3 o'clock position decreases by one each time.

When all these rules are applied together, the correct answer for the missing diagram of the sequence is B.

Question 16



Solution: D

Explanation:

In this question there is a black triangle, a medium grey triangle and a light grey triangle each of which follows its own rule.

The black triangle rotates around the octagon by 135° clockwise each time.

The medium grey triangle rotates by 180° each time.

The light grey triangle rotates by 90° anticlockwise each time.

Following these rules, the correct answer is D.

