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FIGURAL PATTERN FOLDING AND COMPLETION

Figural Pattern - folding and completion questions form an integral part of many aptitude examinations. These questions present a figure that either has to be completed from a set of possible answers or have to select a figure that would resemble the pattern after unfolding.

The Paper Folding and Cutting involves a process in which a transparent sheet is folded and then some cuts and/or folds are made. In the questions based on Paper Folding and Cutting a few figures are given showing the way in which a piece is to be folded and then cut from a particular section. The dotted line is the reference line along which the paper is to be folded and the arrow indicates the direction of the fold.

Thus, these figures indicate the sequence in which the paper is to be folded. The designs from the cut will appear on each one of the folds made on the paper. In questions based on paper folding and cutting it can be asked to find either the folded or unfolded pattern of the sheet.

Important Types of Figural Pattern Questions

Figural Pattern questions are a high-scoring section if you master the relevant techniques and practise well before appearing for your examination. The types of figural pattern questions include:

- **Paper Folding** - Select the figure which would resemble the pattern given when the figure is unfolded along the dotted lines indicated.
- **Completion of Figure** - Find the missing part of a figure from the given answer set so that when inserted in the empty place, it completes the pattern of the figure.

Tips to Solve Figural Pattern Questions

While there are no Figural Pattern - folding and completion rules, aspirants must remain aware of their time while solving these questions. The trick here is to answer correctly without spending too much time on the section. Here are a few Figural Pattern - folding and completion tricks to keep in mind:

- Do not worry about the complexity of the figure.
- Read the question carefully to understand its meaning.
- The figure given will not necessarily be to scale or match the size of the answer options.
- If you do not find the figure on the first try, rotate the figure to find the answer.
- Ensure that the orientation of the figure matches precisely.

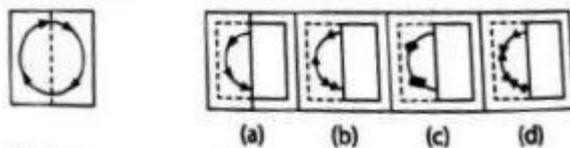
Figural Patterns are a high-scoring section. As there is no Figural Pattern - folding and completion formula, you must time yourself. Do not spend more than 60 seconds per question.

Some Solved Examples For You

Directions: In each of the following problems, a square transparent sheet with a pattern is given. Figure out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded along the dotted line.

Q1. Transparent Sheet

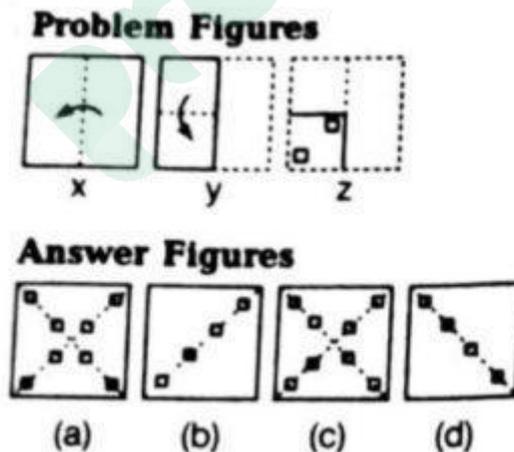
Answer Figures



Answer: The right half of the transparent sheet is being folded along the dotted line and placed on the left half of the sheet. The figure thus obtained resembles the answer figure (c).

Directions: In the following question, a piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

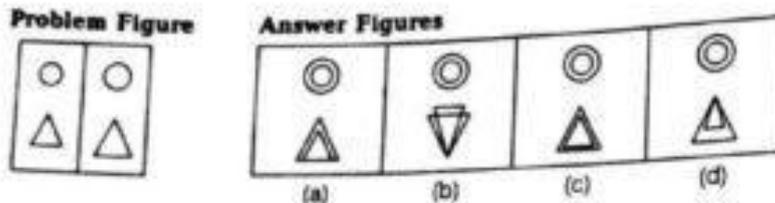
Q2.



Answer: In these types of questions, the easiest thing to do is to start with the last picture and undo the steps taken in the question. Let us see, if we start from the figure z, and move to y, we will get a figure that has square cuts as half diagonals in the left half only. From the figure y we have to now move to the figure x, that would give a figure similar to the one in (a). Hence the correct answer here is (a).

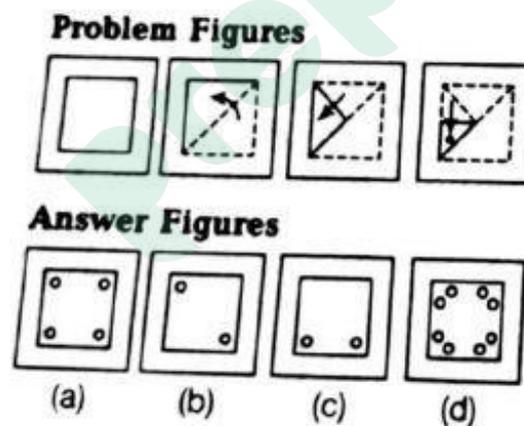
Let us see some difficult questions now.

Q1. A square transparent sheet with a pattern is given. Figure out from among the four alternatives as to how the pattern would appear when the transparent sheet is folded at the middle line shown.



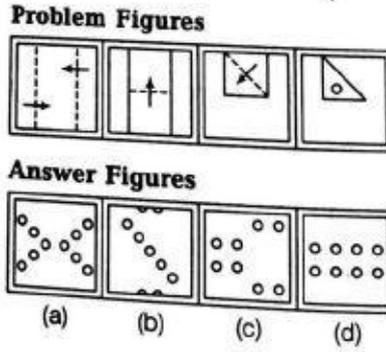
Answer: If you look at the options, you would see that the option (a) can't be the answer because if the sheet was folded at the middle the triangles will be joined at the vertex. Similarly, you can discard all the other options except (d). The correct option is (d).

Q2. A piece of paper is folded and punched as shown below in the question figures. from the given answer figures, indicate how it will appear when opened?



Answer: In the last problem figure, we see that the paper is folded in the form of a right triangle and the cut is made near the midpoint of the hypotenuse inside the triangle. Unfolding the triangle would give us another right triangle which has marks near the two sides apart from the hypotenuse. At this point, we can say that the answer could be either (a) or (d). Similarly, if we keep unfolding we will see that the correct answer is (d).

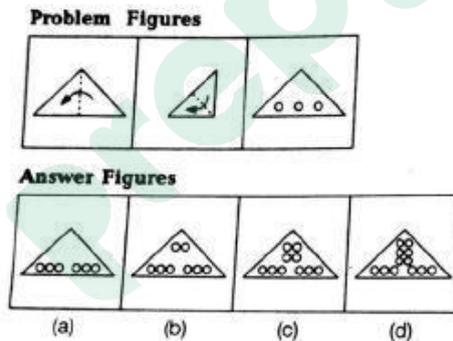
Q3. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?



Answer: As we have done with the other questions, we will begin with the last problem figure and move on to the first one, while tracing out all the spots on each step. Whence we do that we will see that out of the four options, the only one that represents the answer figure is the one in option (a).

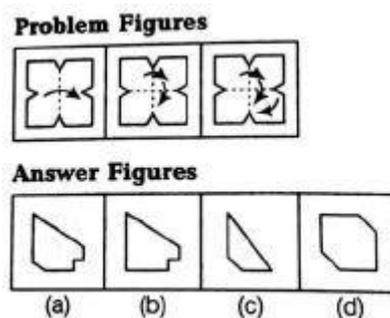
Practice Questions:

Q1. A triangular sheet of paper has been folded and punched as shown in the following series of figures. How will it appear when opened?



Answer: (d)

Q2. A square piece of paper cut at the edges as shown is taken and folded as shown below. How would the folded pattern look?



Answer: (b)

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