

How to use this sheet. A fold crease behaves exactly like a mirror line. Count the folds, then raise 2 to that power to get the number of holes for a punch placed away from every crease — a punch resting exactly on a crease does not double. Blank boxes are provided for you to sketch the unfolded pattern by hand.

Quick reference — Holes (punch off every crease) = 2 raised to the number of folds · Unfold in reverse of the folding order · A cut touching the crease merges into one symmetric shape; a cut away from it gives two mirrored shapes

Section A · Multiple choice questions

All questions are built to the AAI pattern. No question in this chapter was found in any extractable or recovered previous year paper.

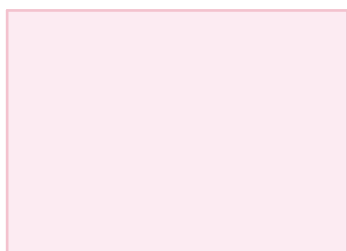
1. A crease made by folding a sheet of paper behaves, for the purpose of this topic, like a:

(1) Straight cut (2) Mirror line (3) Rotation axis (4) Water surface

2. When unfolding a sheet that was folded three times, in what order should the folds be undone?

(1) In the same order they were made (2) Starting from the middle fold (3) In any order — it makes no difference (4) In the reverse of the order they were made

3. A square sheet is folded once in half and a single hole is punched away from the crease. Sketch the unfolded sheet, then state how many holes it will show.



Folded sheet (as described)

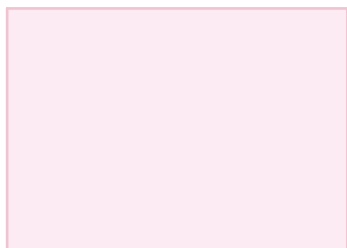
Sketch the fully unfolded sheet here

(1) 2 (2) 1 (3) 4 (4) 3

4. A sheet is folded once and a hole is punched exactly on the fold line itself. How many holes appear once unfolded?

(1) 2 (2) 0 (3) 1 (4) 4

5. A square is folded in half twice, then punched once away from both creases. Sketch the unfolded sheet, then state how many holes it will show.



Folded sheet (as described)

Sketch the fully unfolded sheet here

(1) 2 (2) 3 (3) 6 (4) 4

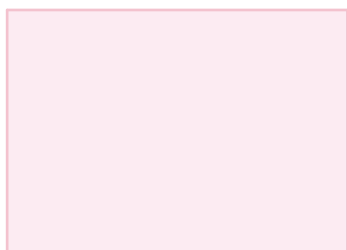
6. A square is folded in half three times, then punched once away from every crease. How many holes appear when unfolded?

(1) 6 (2) 8 (3) 9 (4) 3

7. A square is folded in half twice, and then two separate holes are punched, both away from the creases and from each other. How many holes appear when unfolded?

(1) 4 (2) 6 (3) 8 (4) 16

8. A square sheet is folded once in half and a small triangular piece is cut from a corner that lies away from the fold. Sketch the unfolded sheet.



Folded sheet (as described)

Sketch the fully unfolded sheet here

(1) One triangular notch (2) Two separate triangular notches, mirrored across the fold (3) A single diamond-shaped notch on the fold line (4) No visible change

9. A square is folded once and a triangular notch is cut so that one edge of the notch lies exactly along the fold. What does the unfolded sheet show?

(1) Two separate triangles (2) No change at all (3) One larger symmetric shape straddling the former fold line (4) A round hole

10. A sheet is folded four times and punched once, away from every crease. How many holes appear when unfolded?

(1) 8 (2) 12 (3) 16 (4) 4

11. Why does a punch placed exactly on a crease fail to double when that particular fold is opened?

(1) The punch is too small to see (2) It has nothing on the other side of that crease to reflect to (3) Creases absorb ink (4) It always disappears when unfolded

12. A sheet is folded twice, and a punch is placed exactly on one of the two creases but away from the other. How many holes appear once fully unfolded?

(1) 1 (2) 2 (3) 4 (4) 3

Stuck on any of these? Bring them to a live class.

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