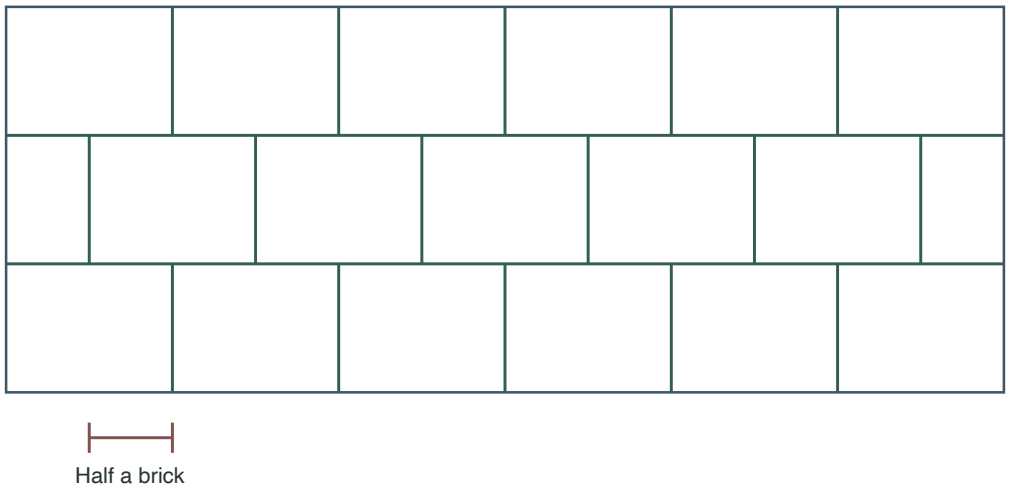
Brick Pattern Paper

Answer | Task 1 of 4 | LETTER

Original prompt

Task 1: Draw three rows of equal bricks with a half-brick offset. Mark the offset on your drawing.



Answer

Row 1 starts with a full brick; row 2 starts with a half brick; row 3 starts with a full brick. The offset is half a brick width, shown as the sideways shift between row 1's first joint and row 2's first joint.

Reasoning

A half-brick offset shifts each row by half a brick width, so the left-edge brick alternates full, half, full.

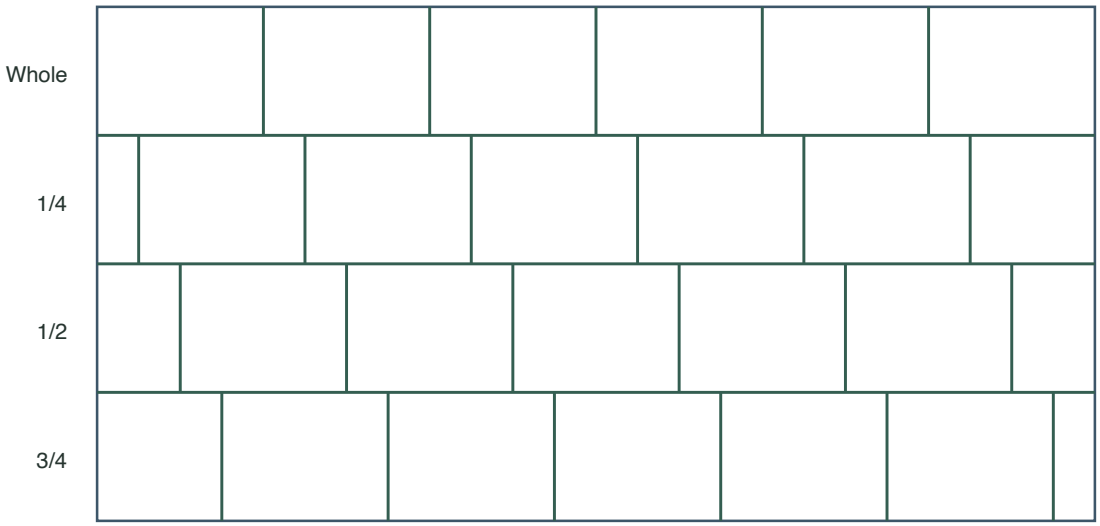
Check

No vertical joint in row 2 sits directly above a joint in row 1.

Brick Pattern Paper

Original prompt

Task 2: Draw four rows with a quarter-brick offset. State the width of the left-edge partial brick in each row.



Answer

Row 1: full brick. Row 2: quarter brick. Row 3: half brick. Row 4: three-quarter brick. The left-edge partial brick grows by one quarter per row.

Reasoning

A quarter-brick offset shifts each row by a quarter brick width relative to the row below, so the left-edge partial brick accumulates one quarter per row.

Check

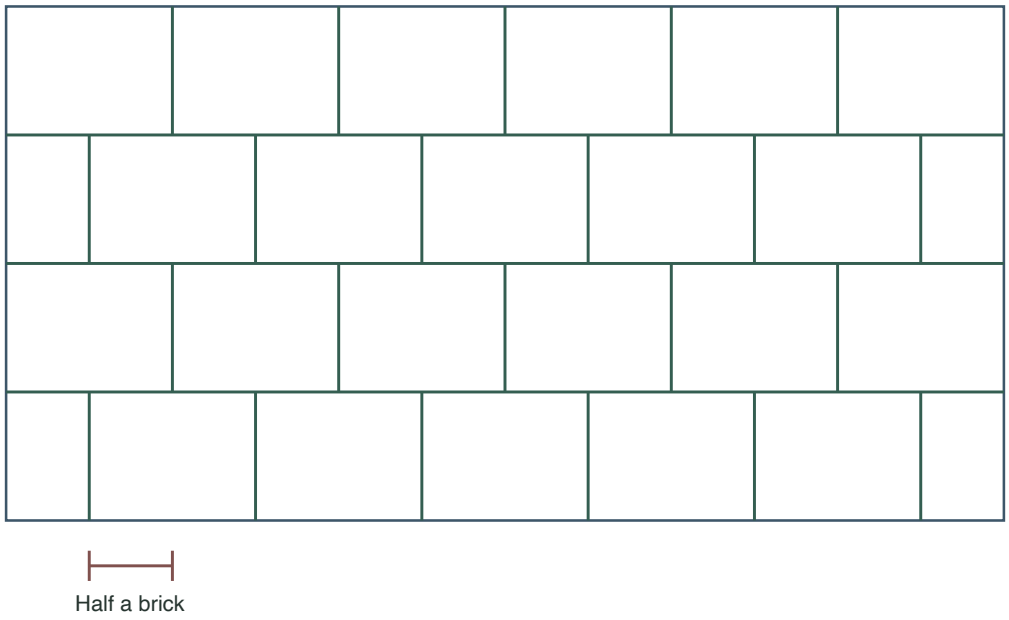
Each row's left-edge partial brick is one quarter brick wider than the row below it, and no joint sits directly above a joint in the row below.

Brick Pattern Paper

Answer | Task 3 of 4 | LETTER

Original prompt

Task 3: Given a sheet where row 1 starts with a full brick and row 2 starts with a half brick, what is the offset? Draw two more rows continuing the pattern.



Answer

The offset is half a brick width. Row 3 starts with a full brick; row 4 starts with a half brick.

Reasoning

The left-edge brick alternates full and half, which is the signature of a half-brick offset.

Check

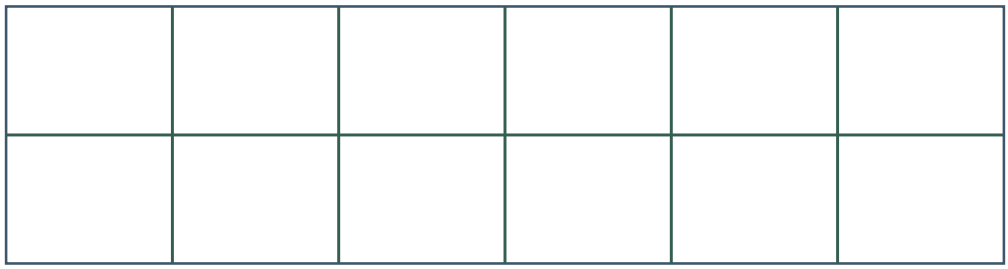
Row 3's first joint aligns with row 1's first joint, and row 4's first joint aligns with row 2's first joint.

Brick Pattern Paper

Answer | Task 4 of 4 | LETTER

Original prompt

Task 4: Draw a two-row brick layout with zero offset. Explain why its joints align instead of forming the staggered pattern used in the other exercises.



Answer

Both rows begin with whole bricks. The vertical joints align at each full-brick boundary. The result is a zero-offset stack bond pattern. The staggered examples have different joint positions in adjacent rows.

Reasoning

Both rows use the same brick width and the same starting position, so their interior joints fall at identical multiples of that width.

Check

Put a straight edge on any first-row interior joint. The matching second-row joint is in the same place, confirming zero offset.