

Geometry Puzzles

Advanced

Cutting and joining shapes.

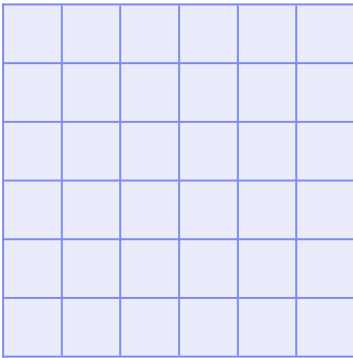
Name: _____

Date: _____

Think: After a cut or a join, re-trace the outside edge slowly — count every side once.

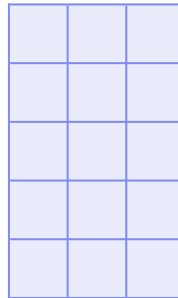
1. Solve each one. Reason it out!

- 1) A 4×6 rectangle and a 2×6 rectangle are joined along their full 6-cm edges to make this shape. What is its PERIMETER, in cm?



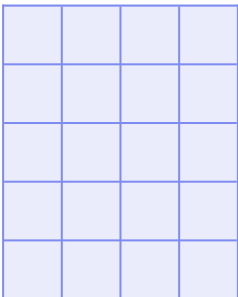
Answer: _____

- 2) A 2×3 rectangle and a 3×3 rectangle are joined along their full 3-cm edges to make this shape. What is its PERIMETER, in cm?



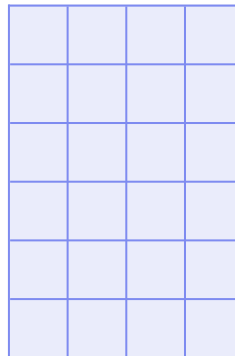
Answer: _____

- 3) This 5×4 rectangle is cut into two equal pieces by one straight vertical cut. What is the PERIMETER of ONE piece, in cm?



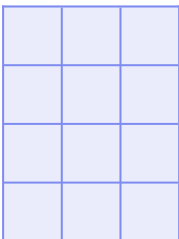
Answer: _____

- 4) A 2×4 rectangle and a 4×4 rectangle are joined along their full 4-cm edges to make this shape. What is its PERIMETER, in cm?



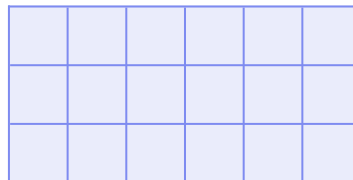
Answer: _____

- 5) A 2×3 rectangle and a 2×3 rectangle are joined along their full 3-cm edges to make this shape. What is its PERIMETER, in cm?



Answer: _____

- 6) This 3×6 rectangle is cut into two equal pieces by one straight vertical cut. What is the PERIMETER of ONE piece, in cm?



Answer: _____