

Geometry Puzzles

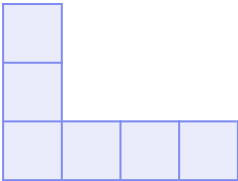
Practice — ANSWER KEY

Cut a corner — what changes?

Think: Cutting a corner rectangle out SHRINKS the area but keeps the perimeter the SAME.

1. Answers with the thinking.

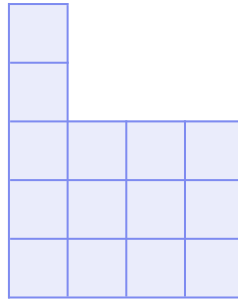
- 1) A 2×3 corner was cut from this 3×4 rectangle. What is the AREA of the remaining shape, in square cm?



Answer: **6**

↳ $12 - 6$

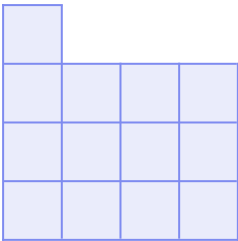
- 2) A 2×3 corner was cut from this 5×4 rectangle. What is the PERIMETER of the remaining shape, in cm?



Answer: **18**

↳ surprise — same as the full rectangle: $2 \times (5 + 4)$

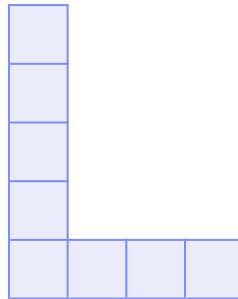
- 3) A 1×3 corner was cut from this 4×4 rectangle. What is the PERIMETER of the remaining shape, in cm?



Answer: **16**

↳ surprise — same as the full rectangle: $2 \times (4 + 4)$

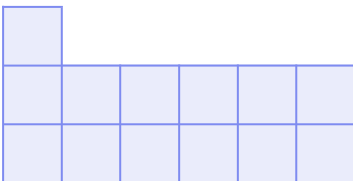
- 4) A 4×3 corner was cut from this 5×4 rectangle. What is the PERIMETER of the remaining shape, in cm?



Answer: **18**

↳ surprise — same as the full rectangle: $2 \times (5 + 4)$

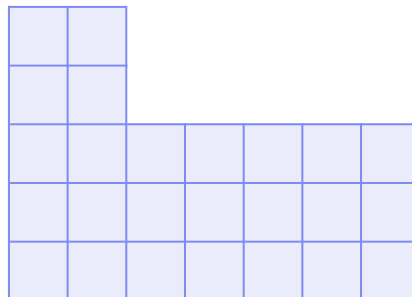
- 5) A 1×5 corner was cut from this 3×6 rectangle. What is the AREA of the remaining shape, in square cm?



Answer: **13**

↳ $18 - 5$

- 6) A 2×5 corner was cut from this 5×7 rectangle. What is the AREA of the remaining shape, in square cm?



Answer: **25**

↳ $35 - 10$