

Geometry Puzzles

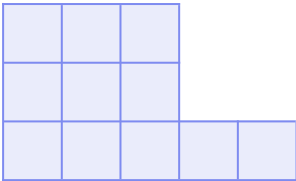
Practice — ANSWER KEY

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.

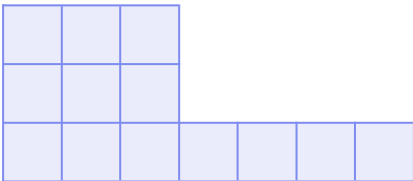
- 1) A 2×2 corner was cut from this 3×5 rectangle. What is the AREA of the remaining shape, in square cm?



Answer: **11**

↳ $15 - 4$

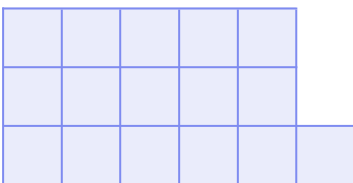
- 3) A 2×4 corner was cut from this 3×7 rectangle. What is the AREA of the remaining shape, in square cm?



Answer: **13**

↳ $21 - 8$

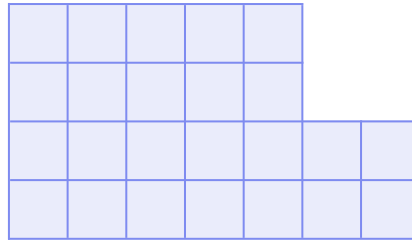
- 5) A 2×1 corner was cut from this 3×6 rectangle. What is the PERIMETER of the remaining shape, in cm?



Answer: **18**

↳ surprise — same as the full rectangle: $2 \times (3 + 6)$

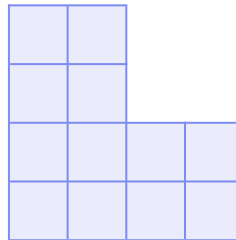
- 2) A 2×2 corner was cut from this 4×7 rectangle. What is the PERIMETER of the remaining shape, in cm?



Answer: **22**

↳ surprise — same as the full rectangle: $2 \times (4 + 7)$

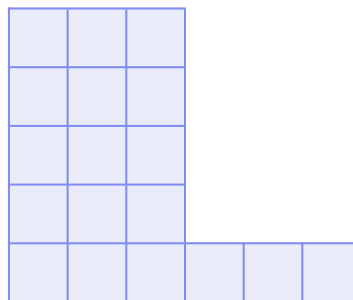
- 4) A 2×2 corner was cut from this 4×4 rectangle. What is the PERIMETER of the remaining shape, in cm?



Answer: **16**

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

- 6) A 4×3 corner was cut from this 5×6 rectangle. What is the PERIMETER of the remaining shape, in cm?



Answer: **22**

↳ surprise — same as the full rectangle: $2 \times (5 + 6)$