

Geometry Puzzles

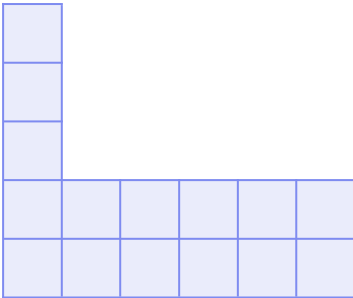
Practice — ANSWER KEY

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.

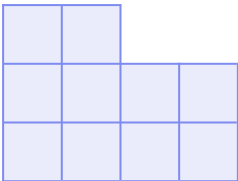
- 1) A 3×5 corner was cut from this 5×6 rectangle. What is the AREA of the remaining shape, in square cm?



Answer: 15

↳ $30 - 15$

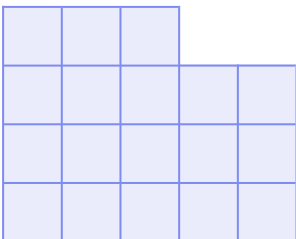
- 3) A 1×2 corner was cut from this 3×4 rectangle. What is the AREA of the remaining shape, in square cm?



Answer: 10

↳ $12 - 2$

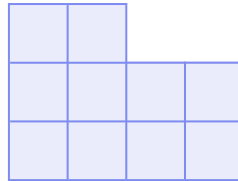
- 5) A 1×2 corner was cut from this 4×5 rectangle. What is the PERIMETER of the remaining shape, in cm?



Answer: 18

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

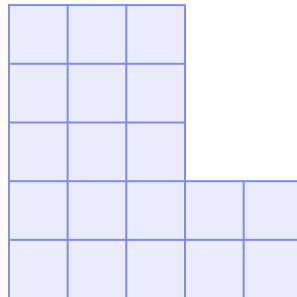
- 2) A 1×2 corner was cut from this 3×4 rectangle. What is the PERIMETER of the remaining shape, in cm?



Answer: 14

↳ surprise — same as the full rectangle: $2 \times (3 + 4)$

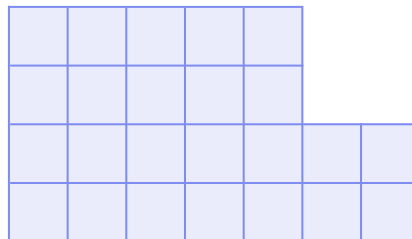
- 4) A 3×2 corner was cut from this 5×5 rectangle. What is the AREA of the remaining shape, in square cm?



Answer: 19

↳ $25 - 6$

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



Answer: 24

↳ $28 - 4$