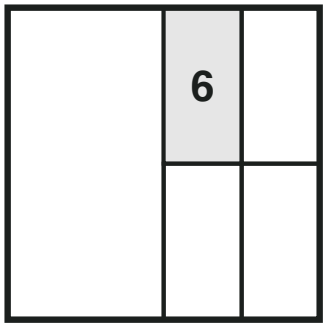
Area Logic Puzzles · How to Solve

The big idea

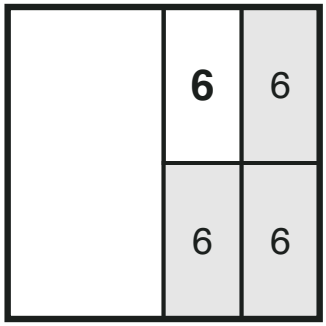
Parts that are the same shape and size are worth the same amount.
Start with the part you know, and work your way out to the whole.

1



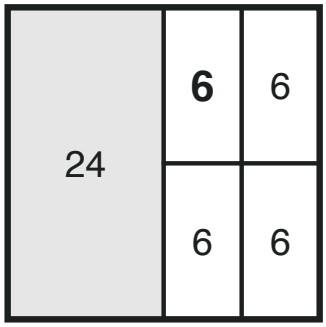
Start with the part you know. One small part is worth 6.

2



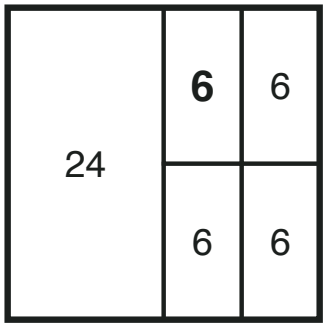
The other three small parts are the same shape and size, so each one is worth 6 too.

3



Four small parts make the right half:
6 + 6 + 6 + 6 = 24. The left half is the same size as the right half, so it is worth 24 too.

4



Add the two halves: 24 + 24 = 48. The whole shape is worth 48.

Total value: **48**

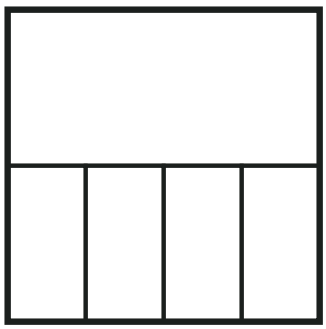
Tip: the cut lines show you the steps. Every puzzle has exactly one answer, and no measuring is needed.

Area Logic Puzzles · How to Solve: Working Backwards

Working backwards

Some puzzles tell you what the whole shape is worth instead of one part.
Then you work the other way: split the whole into its parts.

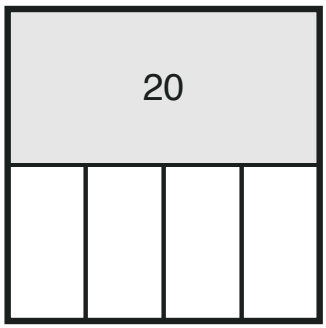
1



Start with the whole. This time the whole shape is worth 40, and you split it up.

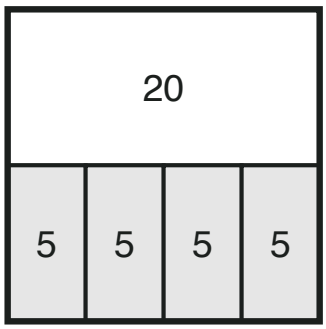
Whole is worth: **40**

2



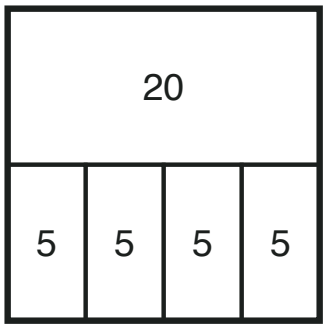
The shape is cut into two halves of the same size: 40 ÷ 2 = 20. The top half is worth 20.

3



The bottom half is worth 20 too. It is cut into 4 parts that are all the same: 20 ÷ 4 = 5.

4



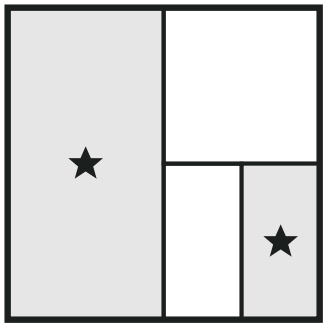
Check: add every part. 20 + 5 + 5 + 5 + 5 = 40, the whole. It works!

Tip: check every puzzle the same way. All the parts always add up to the whole.

Challenge puzzles

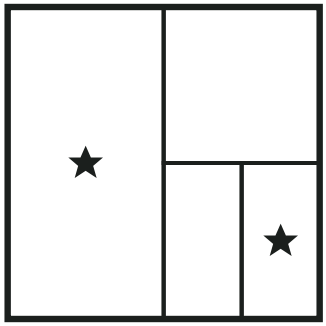
Two parts have stars. You are told what the two starred parts are worth together. Use the smaller star as your counting unit.

1



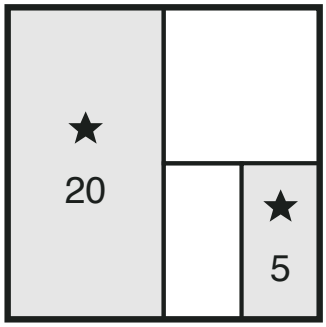
The card says the two starred parts are worth 25 together. They are different sizes, so they are not worth the same.

2



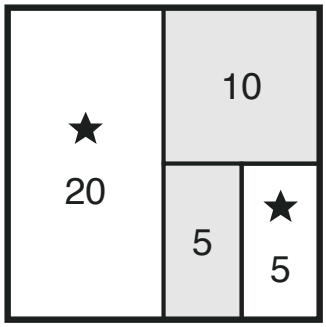
The big star is the left half. The right half is the same size, and it holds 4 small parts (the top quarter is 2 of them). So the big star is the same as 4 small parts.

3



Together the stars make 4 + 1 = 5 small parts, and 25 ÷ 5 = 5. So a small part is worth 5, and the big star is worth 20.

4



Finish like any puzzle: the other small part is 5 and the top quarter is 10. 20 + 10 + 5 + 5 = 40.

Total value: **40**

Tip: once you know what one small part is worth, every other part follows from the cuts.