


PICTURE IT

Adam and Rebecca have been swimming in their pool. Each did half as many lengths butterfly as the other did breaststroke. At the end of the session, they had done a total of 105 lengths between them. If Rebecca did 18 lengths of butterfly, how many lengths of butterfly did Adam do?



Which c

35
56
66
83
88

Ask your way cell. ds.

+11

3/4 of this

-11

Square it

Reverse the digits

5/6 of this

SOLUTION

We know that Rebecca swam 18 lengths of butterfly, which means that Adam swam 36 lengths of breaststroke (each did half as many lengths butterfly as the other did breaststroke).

105 lengths need to be accounted for in total.

$$105 \text{ (total lengths)} - 54 \text{ (total lengths known so far)} = 51 \text{ lengths}$$

We know that Rebecca swam half as many lengths of breaststroke as Adam's butterfly; in terms of cocktail recipes, that's one part breaststroke to two parts butterfly, equalling three parts total.

$$51 \text{ divided by } 3 = 17.$$

Rebecca did 17 lengths breaststroke, and Adam swam twice this number of lengths of butterfly.

Answer: Adam swam 34 lengths of butterfly.

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		R	A	Puzzles	
Butt		18	34	even	Total
BS	odd	17	36		105

WHAT'S NEW