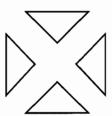
Maria makes square tables, then sticks tiles to the top.



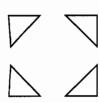
She uses three types of tiles:



whole tiles



half tiles

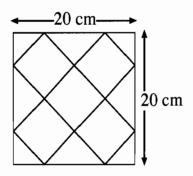


quarter tiles

The sizes of the square tabletops are all multiples of 10 cm.

Maria only uses quarter tiles in the corners and half tiles along the edges of the table.

Here is one tabletop:



This square table uses:

- 5 whole tiles, 4 half tiles,
- 4 quarter tiles.
- How many tiles of each type will she need for a 40 cm by 40 cm square?
- Describe a method for quickly calculating how many tiles of each type she needs for larger, square tabletops.

The table is measured book ion, the letter n=4

so it will 40×40

whole tiles: n²t (n-1)² 4²t 3² = 16+9=25

whole tiles

half tiles: 4(n-1) 4(4-1) 4×3=12 half tiles

quarker tiles: 10n × 10n n=4 4 quarter

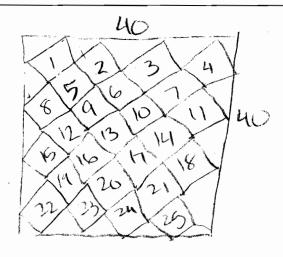
tiles

To calculate the whole tiles you can use

the famula n²t (n-1)² and substitute your

values in it. To calculate the half tiles use

N(n-1) where n is your value.



25 whole tites 12 half tiles 4 Eyarker tiles.

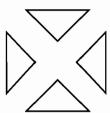
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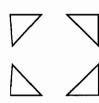
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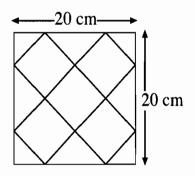


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- Describe a method for quickly calculating how many tiles of each type she needs for larger, square tabletops.

1. 49 uarter, 12 half, 25 wholes

2 Every tabletop needs 4 gyartels

WDIVIDE area of table by area of whole tile (50).

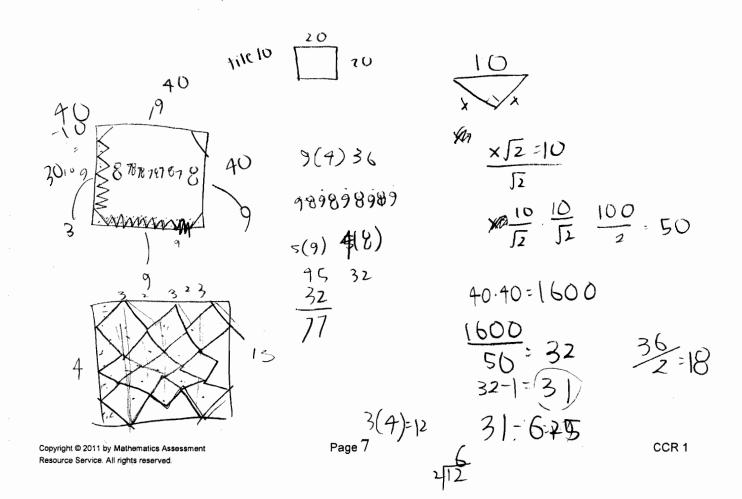
O Subtract 10cm from length of table, divide answer by 10,

then times 4. That's the # of halves needed

1) Add one to the half of the answer in 'c" and subtract

the answer from the answer in b). That's the # of

whole tiles needed.



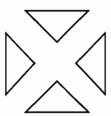
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whole tiles



half tiles

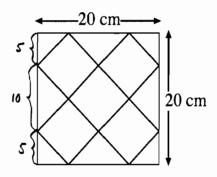


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Here is one tabletop:



This square table uses:

- 5 whole tiles, 4 half tiles,
- 4 quarter tiles.
- 1. How many tiles of each type will she need for a 40 cm by 40 cm square?
  4 quarter tiles, 12 half tiles,
  25 whole tiles
- Describe a method for quickly calculating how many tiles of each type she needs for larger, square tabletops.

2) Every table has 4 quarter tiles. You can find the # of half tiles by
using the formula: [(n + 10)-1]. 4, where n is the length of one side.
You can also the formula: (n=10)2 + (n=10-1)2 · to find the number
of whole tiles.

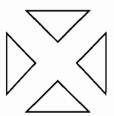
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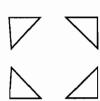
She uses three types of tiles:



whole tiles



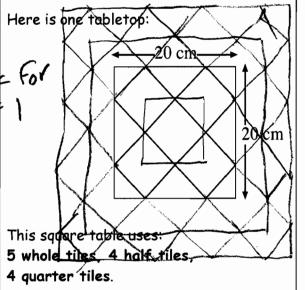
half tiles



quarter tiles

The sizes of the square tabletops are all multiples of 10 cm.

Maria only uses quarter tiles in the corners and half tiles along the edges of the table.



- 1. How many tiles of each type will she need for a 40 cm by 40 cm square?
  25 whole, 12 half, 4 quarter
- 2. Describe a method for quickly calculating how many tiles of each type she needs for larger, square tabletops. Quarter is always 4 n=length Whole = (n-10)+1 + Half = 4(n-1)

10cm =

20cm

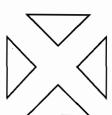
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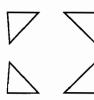
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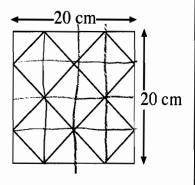


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Table Tiling	
1) of = how many Os in measurement	
of one side	
large: 4x4+(4-1)(4-1) 16+9=25 wh	till
half: (4-1) × 4 12 half	
quarter 4	
because there	
are 4 corners	
2) large squares = 7x7+(7-1)(7-1)	
half = (x-1)x+	