

M304c	Fills a given region leaving no gaps using a tile of a given shape.
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LEVEL-1

Test item-: Tile of which of the following shape cannot be used alone to cover a particular area?

Option A:



Option B:



Option C:

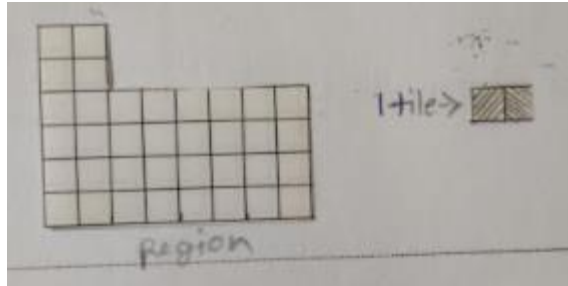


Option D:



Correct Option C:

Test item-2: a part of rectangular region left to be tiled.



How many tiles are required to fill the region?

Option A: 9

Option B: 10

Option C: 12

Option D: 6

Correct option: (D)

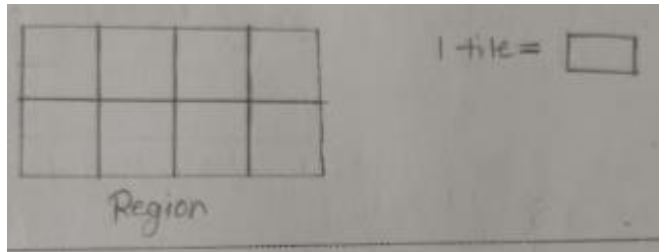
Hints/ Solution

A rectangular region of 12 small boxes is left to be tiled.

1 tile = 2 boxes

So, 6 tiles required.

Test item-3: To fill the given region completely, how many smaller tiles are required to fill the region?



Option A: 4

Option B: 6

Option C: 8

Option D: 16

Correct option: (D)

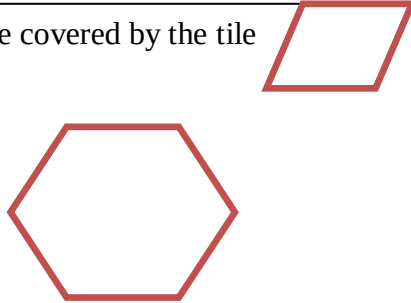
Hints/ Solution

In the region, there are 8 boxes and in each box 2 tiles are grouped completely.

i.e. $8 \times 2 = 16$ tiles

LEVEL-2

Test item-1: Given region is to be covered by the tile



Who is correct?

Sapna: This region can be filled by using 3 tiles but 3rd one need to be cut into two equal triangles.

Seema: No, without cutting any of the three tiles also we can fill the region.

Option A: Sapna

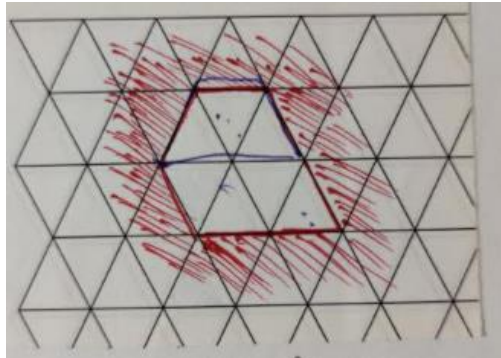
Option B: Seema

Option C: both are correct

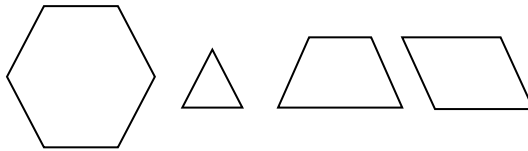
Option D: both are incorrect

Correct option: C

Test item-2: Empty region needs to be tiled.

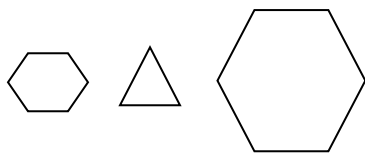


Following tiles are available to fill the regions:



Which of the following combination of tiles will be required in least number for the empty region:.

Option A:



Option B:



Option C:



Option D:



Correct option: A

Hints/ Solution: