

Mathematics

Delprov E

Årskurs

6

Elevens namn och klass/grupp

Task 37. Patterns with squares

(4/5/5)

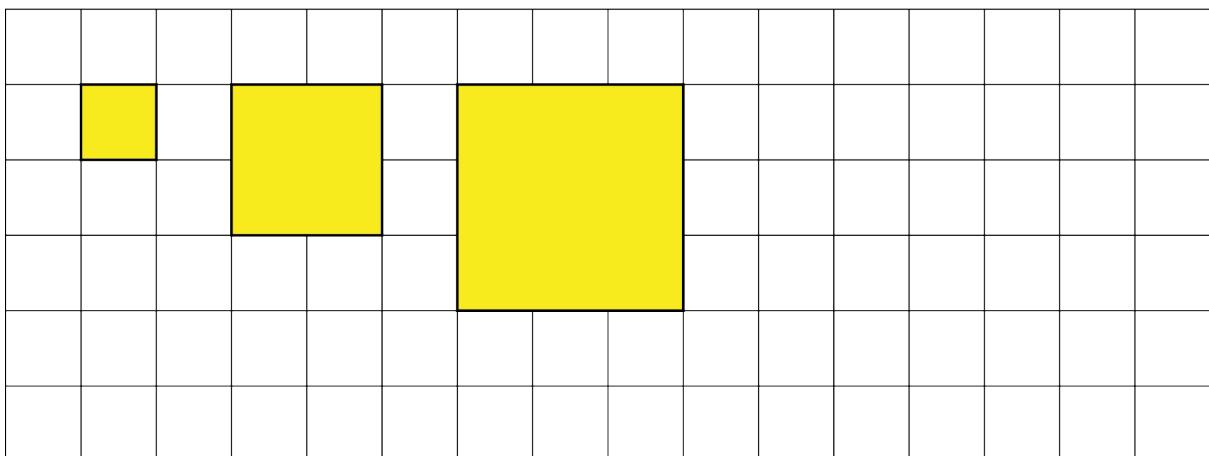
Pattern I

figure 1

figure 2

figure 3

figure 4



- a) Draw *figure 4* in the pattern.
 b) What is the area of *figures 2, 3* and *4*? Fill in the table.

The figure's number	1	2	3	4
The size of the area (cm^2)	1			

- c) Determine two areas in the pattern.
 What is the area of *figure 7*?
 What is the area of *figure 13*?
Show your workings.
- c) You only know the number of the figure. How can you use this to determine the area of a figure in the pattern? Explain in words or use a formula.
- e) What is the number of the figure with an area of 400 cm^2 ?
Show your workings.

Pattern II

figure 1



figure 2



figure 3

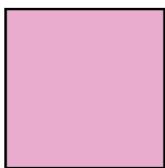


figure 4

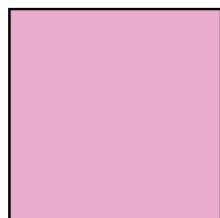
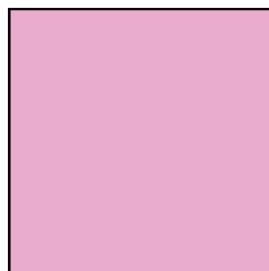


figure 5



The figure's number	1	2	3	4	5
Size of the area in area units (a.u.)		16	36	64	
Side length in length units (l.u.)					

a) Fill in the table.

b) Explain how you determined the size of the area in *figure 1* and *figure 5*.

c) What is the number of the figure with an area of 256 a.u.?
Show your workings.

