

Mathematics

Delprov E

Årskurs

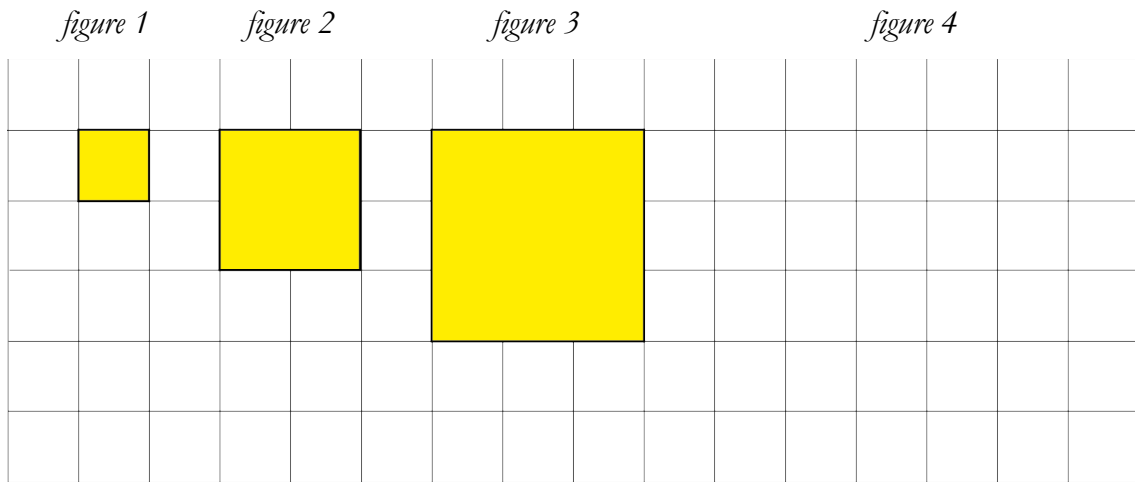
6

Elevens namn och klass/grupp

Task 30. Patterns with squares

(4/4/5)

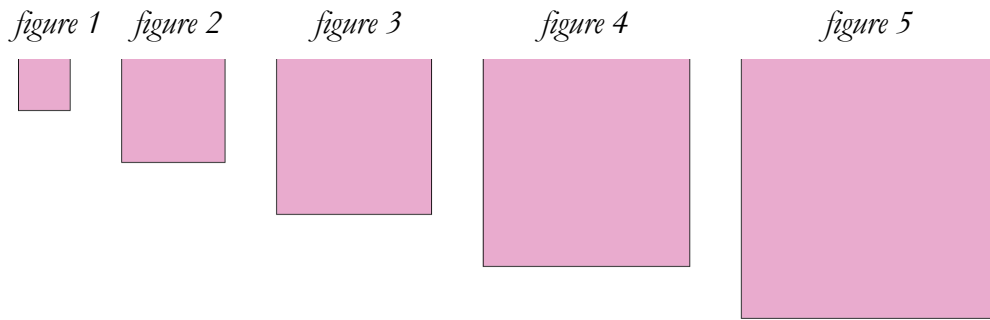
Pattern I



- 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) We're now going to determine the area of two figures in the pattern.
 How large an area does *figure 7* have?
 How large an area does *figure 13* have?
Show your working.
- d) We only know the number of the figure. How can we use this to determine the area of a figure in the pattern? You can either explain in words or use a formula.
- e) What is the number of the figure that has the area 400 cm²?
Show your working.

Pattern II

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

- a) Fill in the table.
- b) Explain how you arrived at the size of the area in *figure 1* and *figure 5*.
- c) What is the number of the figure that has the area 256 a.u.?
Show your working.

