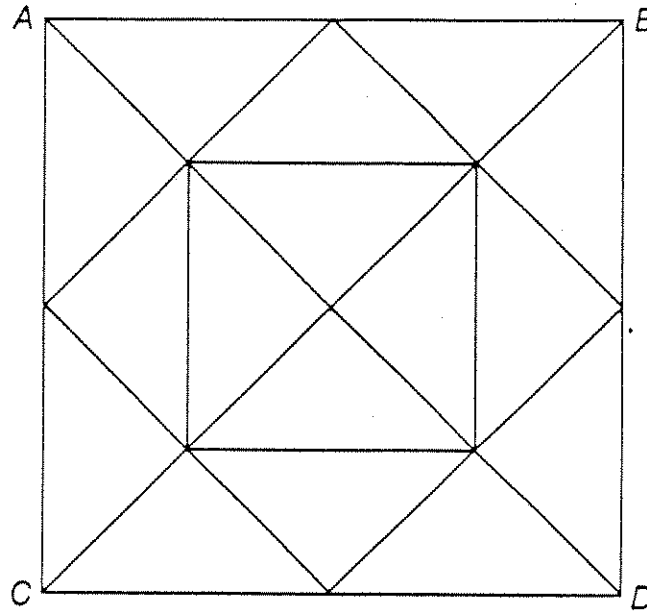


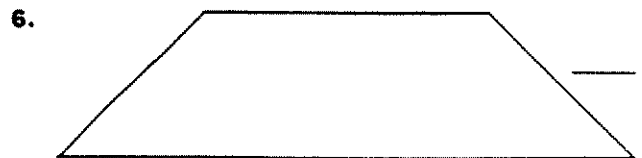
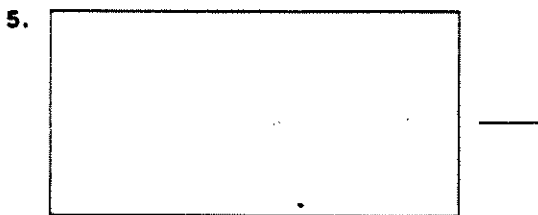
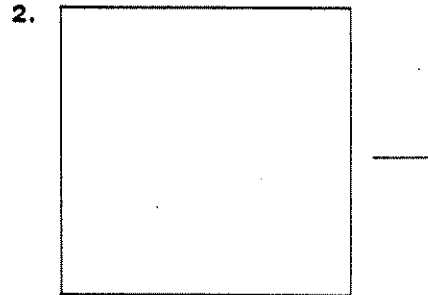
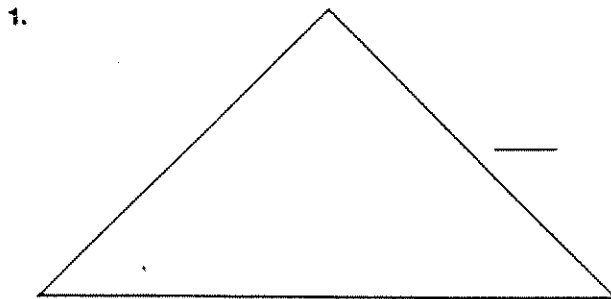
# Fraction Figures

27.1

Figure *ABCD* is 1 unit.



Write the fraction of figure *ABCD* each of these figures represents.



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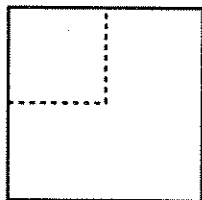
# Shape Up!

Name \_\_\_\_\_

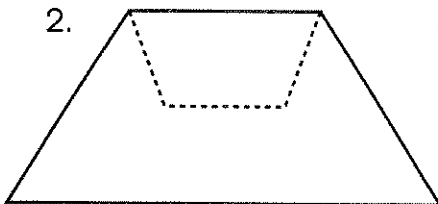
## A—Visual Approach

Trace each figure below and finish drawing the dotted lines to divide each figure into four identical parts, each the same shape as the original picture.

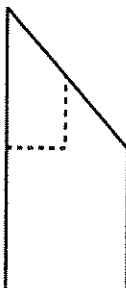
1.



2.



3.

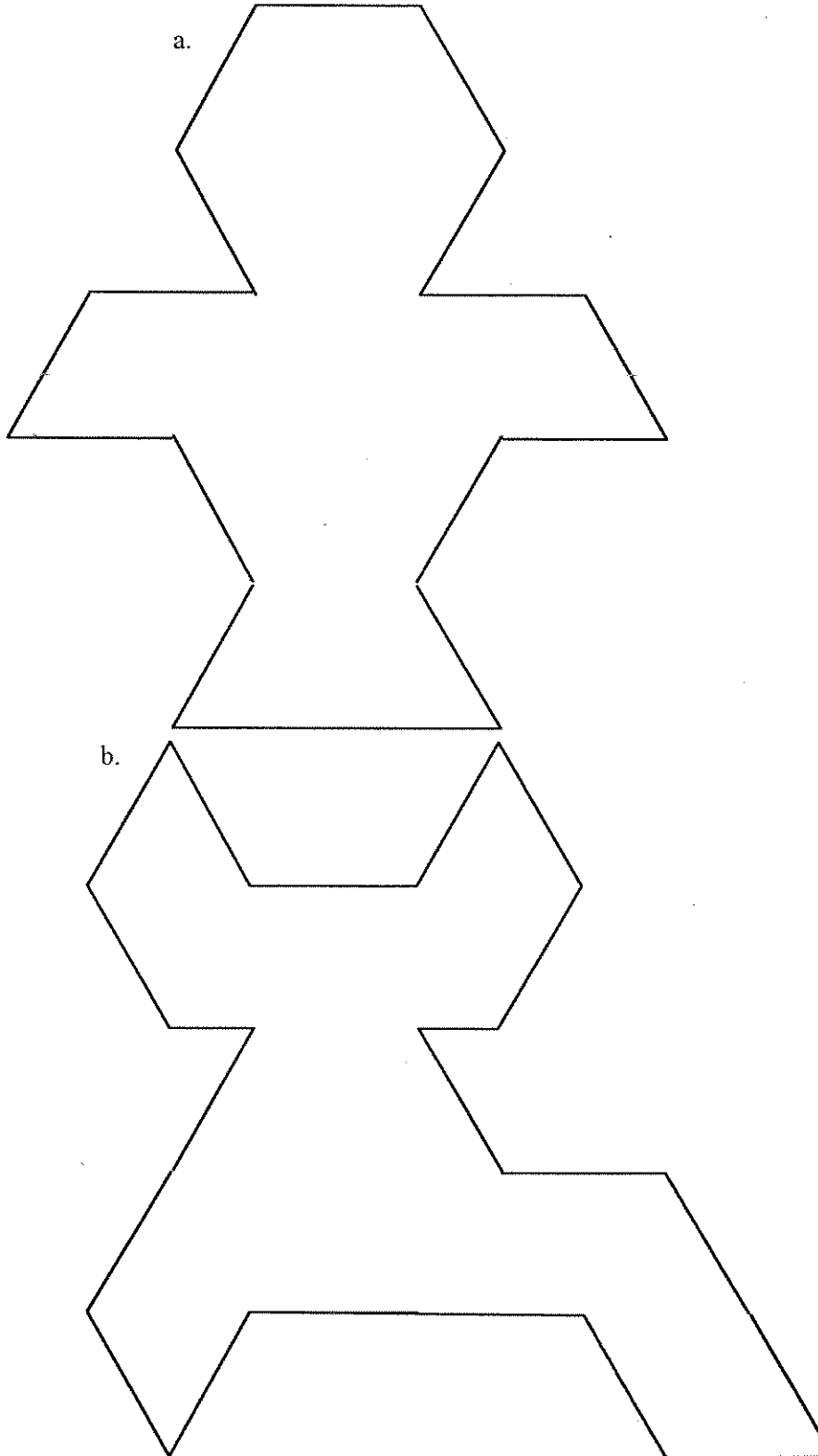


# B—Hands-On Approach

Find area using pattern blocks

Shape a. in hexagonal regions, in trapezoidal regions, and in (wide) rhombus regions

Shape b. in hexagonal regions, in trapezoidal regions, and in (wide) rhombus regions





Name \_\_\_\_\_ Date \_\_\_\_\_

2. How are the perimeters of the figures related?

Why did this happen?

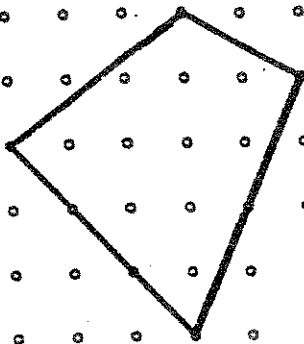
3. Which figure has the least area?

How do you know?

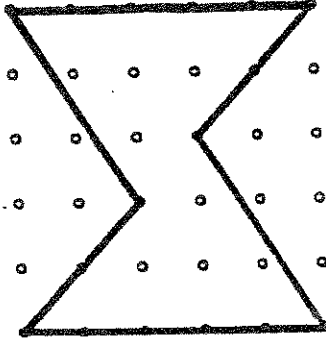
4. On the back of this page, draw two different figures that have the same perimeter and explain how you know their perimeters are the same.

Explain how their areas are related.

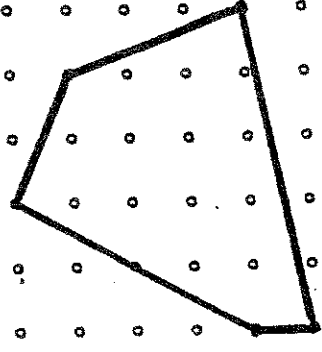
9.3



①



②

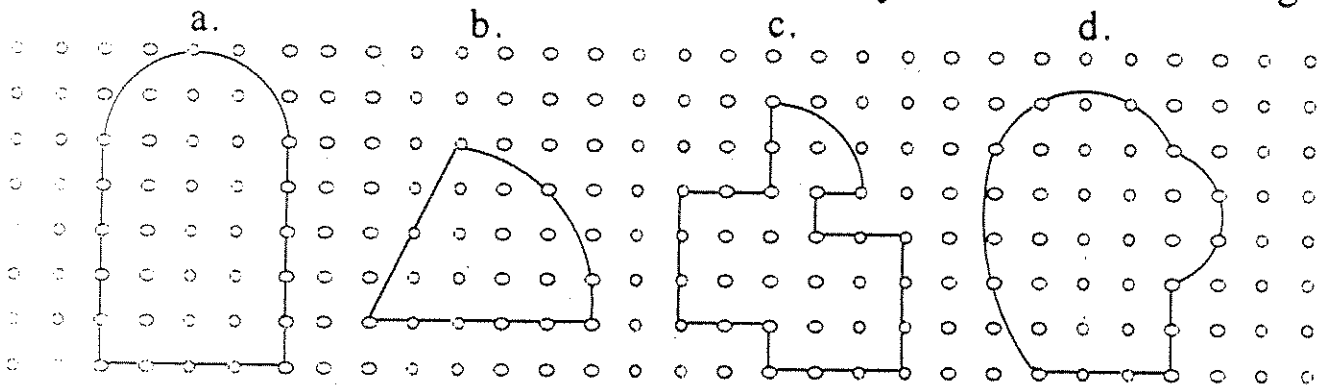


③

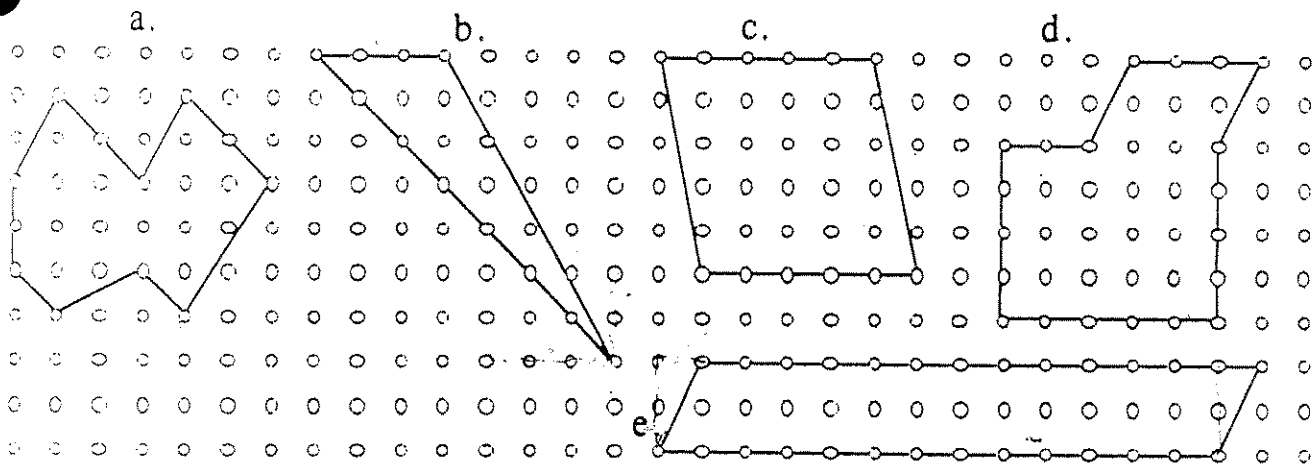
①  $A = 12\frac{1}{2}$   
②  $A = 15$   
③  $A = 15$

Exercises: Find the area of each region below. The areas of regions with curves can only be approximated (why?) but for regions with straight sides, the exact area can be found.

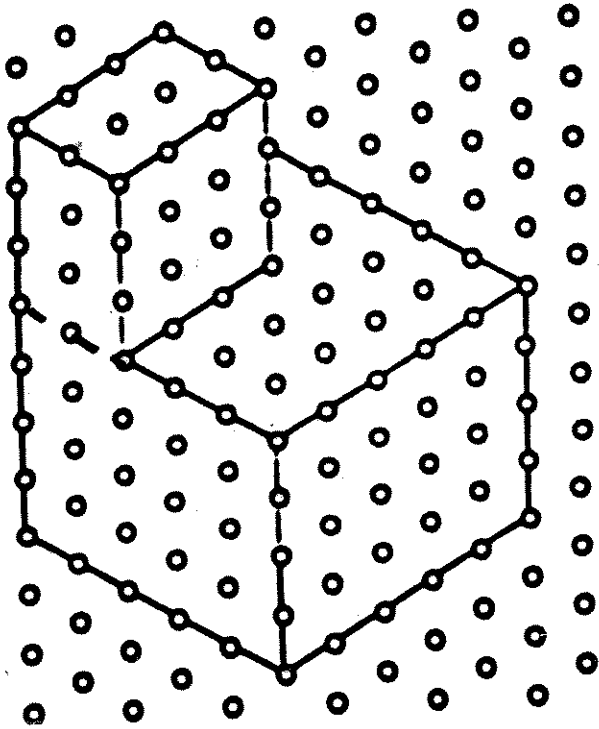
1. Approximately what is the area enclosed by each of the following?



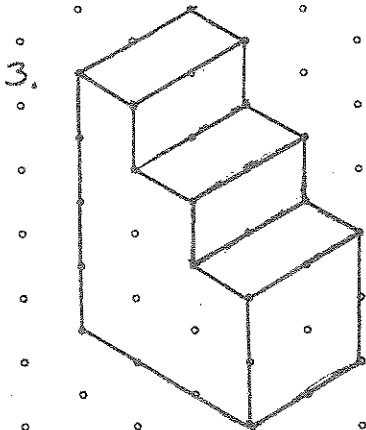
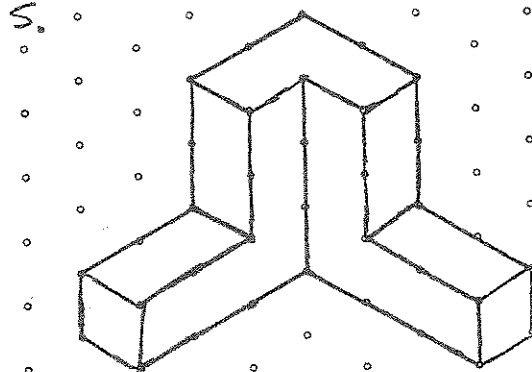
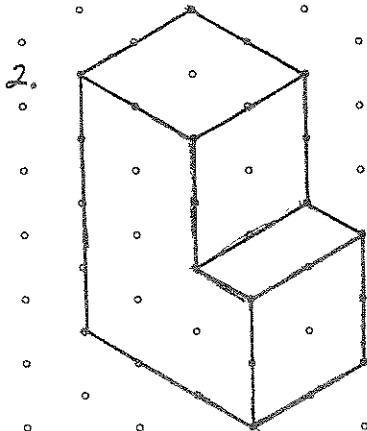
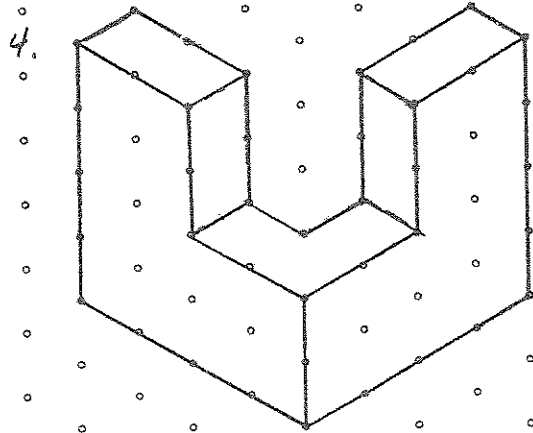
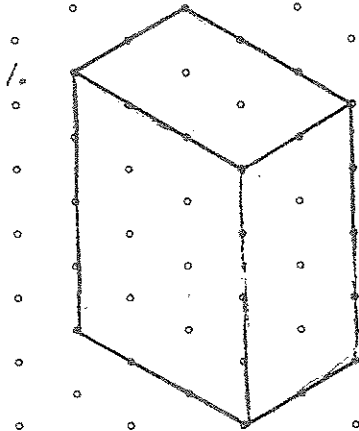
2. Determine the area enclosed by each polygon. Use the natural unit.



Find the surface area  
of the figure shown using the  
natural unit



FIND THE SURFACE AREA



SA = 46

SA = 70

SA = 46

SA = 48

SA = 52

5.

4.

3.

2.

1.