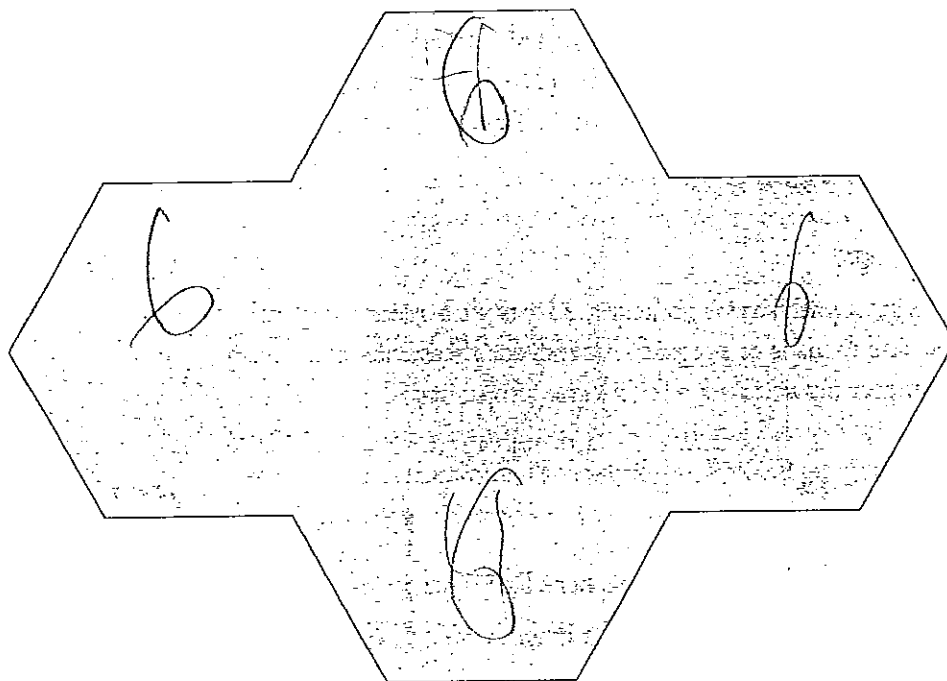


Area Diagnostic Tool

1. a) Cover this shape using hexagon pattern blocks.

How many did you use? 4 hexagon blocks



You will need

- pattern blocks
- square tiles

b) Cover the shape with a different type of pattern block.

Which pattern block did you use? hexagons

How many did you use? 26

c) Why does it make sense that you need a different number of blocks?

It make sense because if you just do the same it will be the same shape.

2. Kyla drew a rectangle that was just big enough to fit about 6 toonies touching each other. Would she need more than 6 pennies or fewer than 6 pennies to fit into the rectangle?

6 + 6 = _____

Explain your thinking.

Name: _____

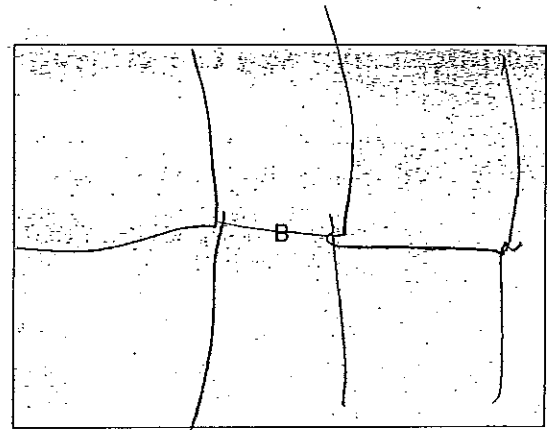
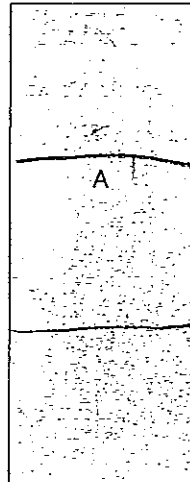
Date: _____

3. a) Predict which shape has the greater area.

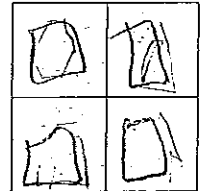
A

- b) Test your prediction by covering the shapes with square tiles.

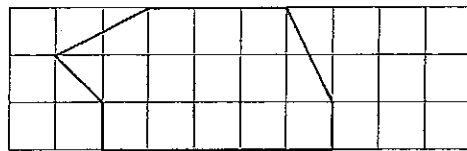
- c) Was your prediction correct? Why or why not?



4. Why can't you just count the squares in each shape to predict which shape has a greater area?

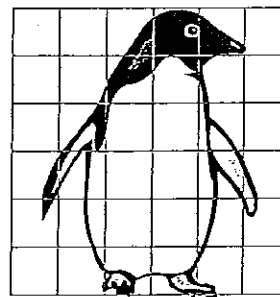


5. What is the area of the shape on this grid in square units?



6. Estimate the area of the penguin picture on this square grid.

about _____



Area

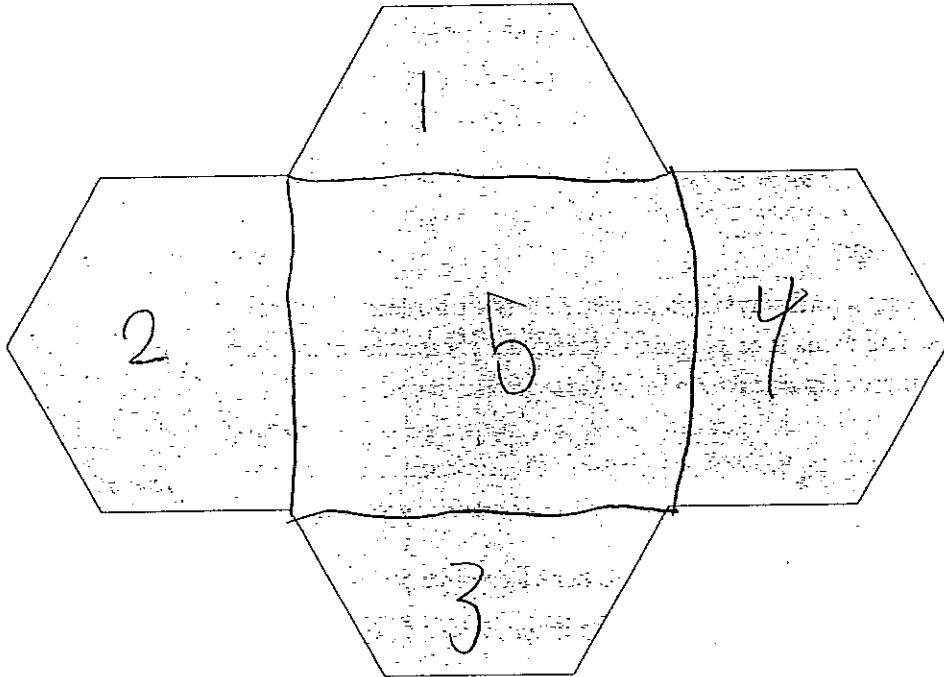
Diagnostic Tool

1. a) Cover this shape using hexagon pattern blocks.

How many did you use? 4 hexagon blocks

You will need

- pattern blocks
- square tiles



b) Cover the shape with a different type of pattern block.

Which pattern block did you use? trapezoids

How many did you use? 10

c) Why does it make sense that you need a different number of blocks?

that 4 and 6 is but 4 is a quadrilateral

2. Kyla drew a rectangle that was just big enough to fit about 6 toonies touching each other. Would she need more than 6 pennies or fewer than 6 pennies to fit into the rectangle?

18 more.

Explain your thinking.

because $3 \times 6 = 18$ so Kyla has

18 more.

Name: _____

Date: _____

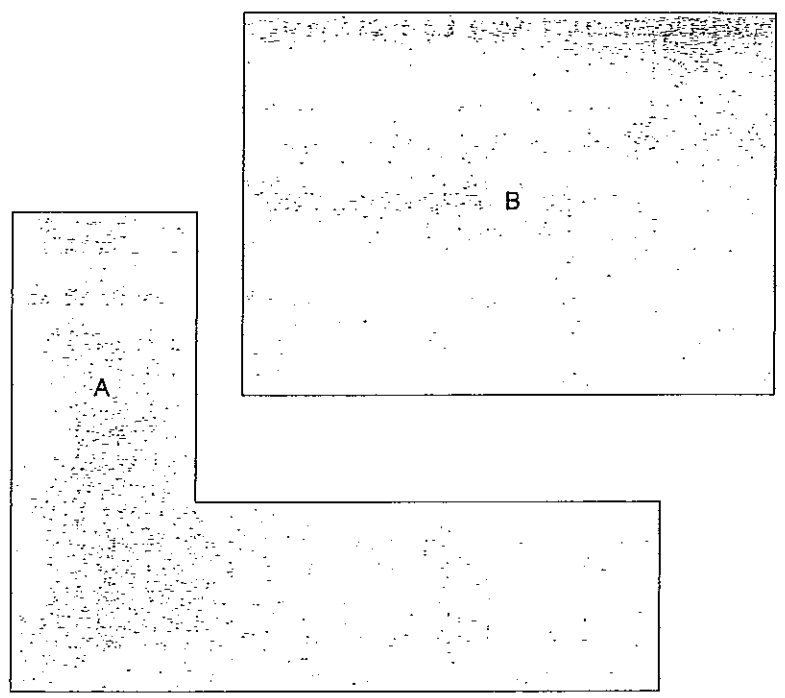
- 3. a) Predict which shape has the greater area.

A

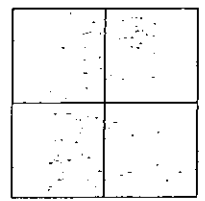
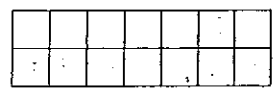
- b) Test your prediction by covering the shapes with square tiles.

- c) Was your prediction correct? Why or why not?

because A has
six sides

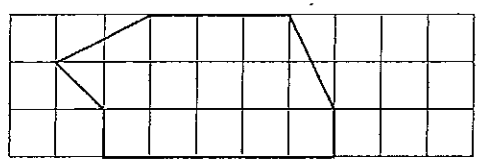


- 4. Why can't you just count the squares in each shape to predict which shape has a greater area?



the first one has 14 sides

- 5. What is the area of the shape on this grid in square units?



this shape is a heptagon

- 6. Estimate the area of the penguin picture on this square grid.

about The box has 4 sides
and it is a quadrilateral

