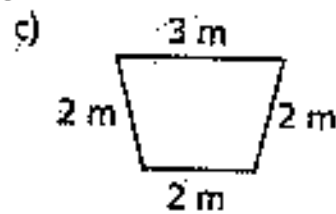
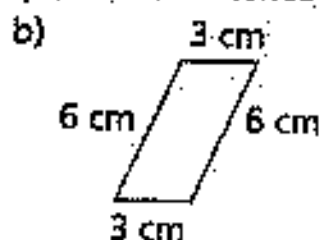
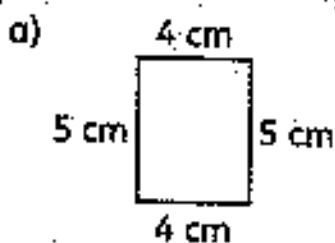


8.	Vehicle	Number of Wheels
	Bicycle	2
	Tricycle	3
	Go-Cart	4

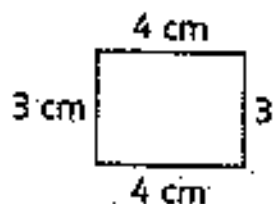


- a) How many wheels do 6 bicycles have?  
 b) Do 5 tricycles have more wheels than 4 go-carts?  
 c) Jim counted 11 wheels on 3 vehicles. How many of each type of vehicle did he count?

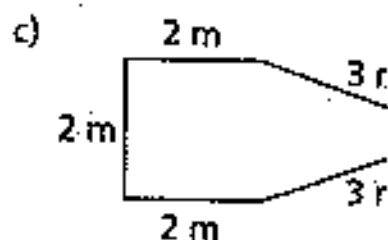
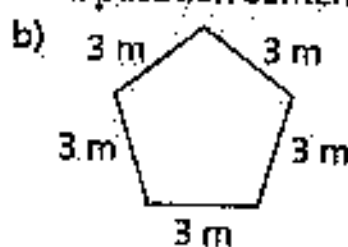
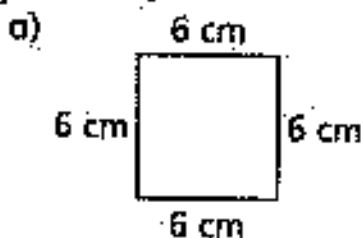
9. Write an addition and multiplication sentence for the perimeter.



10. Iva says the rectangle has perimeter  $2 \times (3 + 4)$  cm. Tristan says the rectangle has perimeter  $2 \times 3 + 2 \times 4$  cm. Who is correct? Explain.



11. Find the perimeter. Write a multiplication sentence if you can.



**BONUS** ▶ Mary draws a polygon on grid paper. She finds the perimeter of her polygon by writing  $4 \times 5 = 20$  cm. Draw Mary's polygon.

**BONUS** ▶ A box of 2 pencils costs 8 cents. A box of 3 pencils costs 10 cents. What is the cheapest way to buy 6 pencils?

**BONUS** ▶ Use the numbers 2, 3, and 4 to fill in the boxes.

a)  $(\square \times \triangle) + \text{pentagon} = 10$

b)  $(\square \times \triangle) - \text{pentagon} = 10$

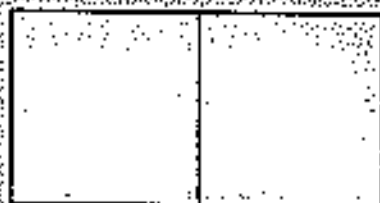
## 3-9 Shapes and Area

Use pattern block squares to cover this rectangle.

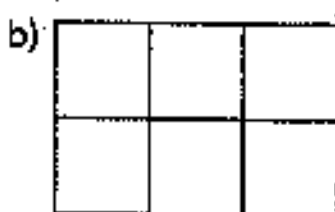
All squares are the same size.

There are no gaps or overlaps.

The area of the rectangle is 2 squares.



Bill measured the area of a book with squares. Write  $\checkmark$  for what he did correctly. Write X for what he did wrong.



The squares are the same size.

The book is covered (no gaps).

The squares do not overlap.

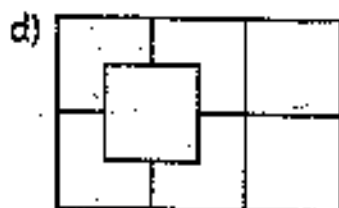
The area is 4 squares.

The squares are the same size.

The book is covered (no gaps).

The squares do not overlap.

The area is 6 squares.



The squares are the same size.

The book is covered (no gaps).

The squares do not overlap.

The area is 5 squares.

The squares are the same size.

The book is covered (no gaps).

The squares do not overlap.

The area is 7 squares.

A square centimetre is a square with sides 1 cm long.

We write  $\text{cm}^2$  for short.

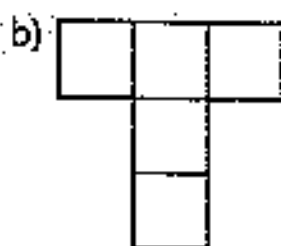
You can measure area in square centimetres.



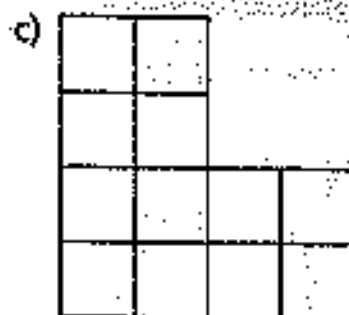
2. Find the area in square centimetres.



Area = \_\_\_\_\_  $\text{cm}^2$



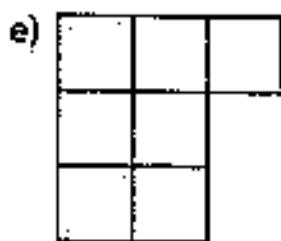
Area = \_\_\_\_\_  $\text{cm}^2$



Area = \_\_\_\_\_  $\text{cm}^2$



Area = \_\_\_\_\_  $\text{cm}^2$



Area = \_\_\_\_\_  $\text{cm}^2$



Area = \_\_\_\_\_  $\text{cm}^2$

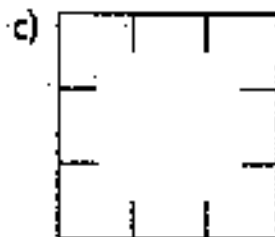
3. Use a ruler to join the marks and divide the rectangle into square centimetres. Then find the area in  $\text{cm}^2$ .



Area = \_\_\_\_\_  $\text{cm}^2$

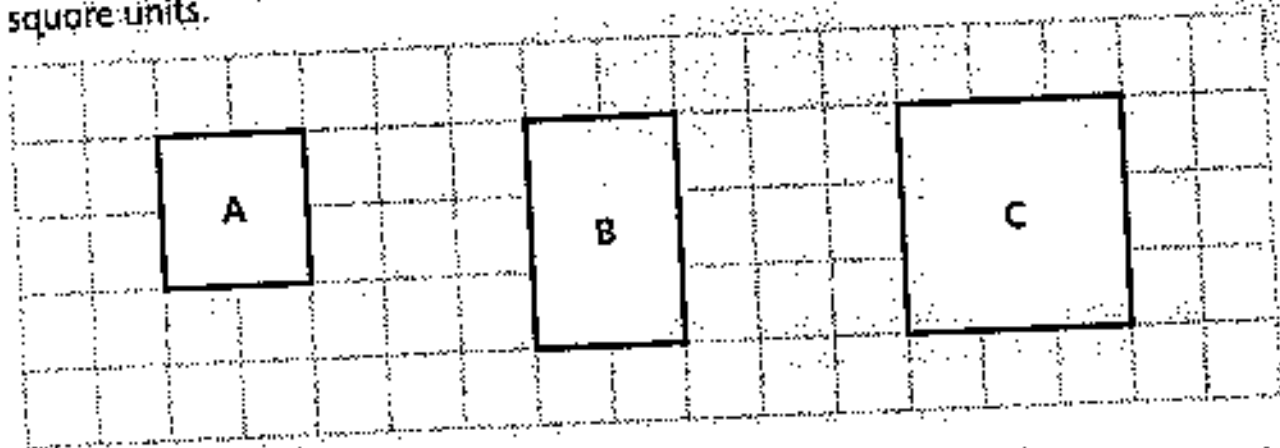


Area = \_\_\_\_\_  $\text{cm}^2$



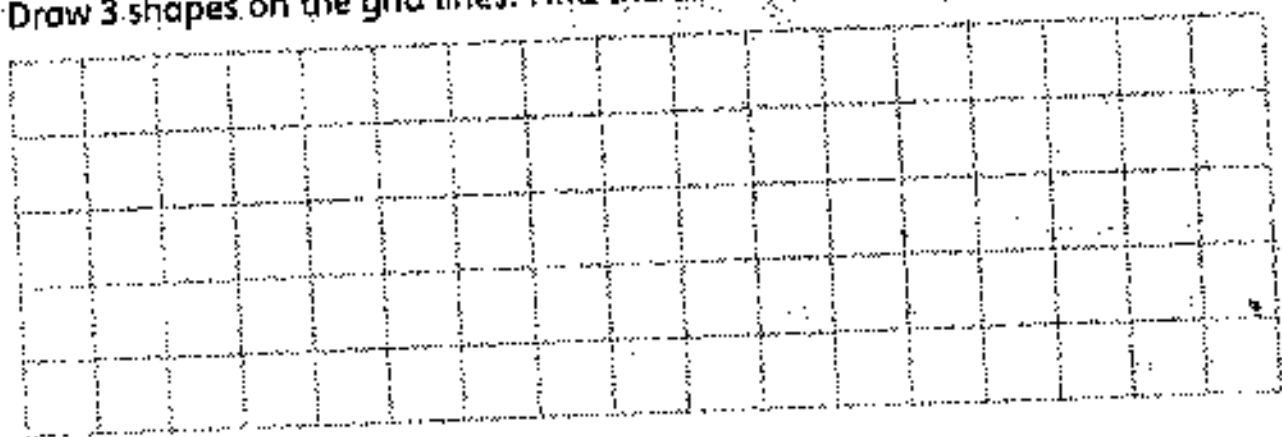
Area = \_\_\_\_\_  $\text{cm}^2$

4. The small squares on the grid are each  $1 \text{ cm}^2$ . Find the areas in square units.

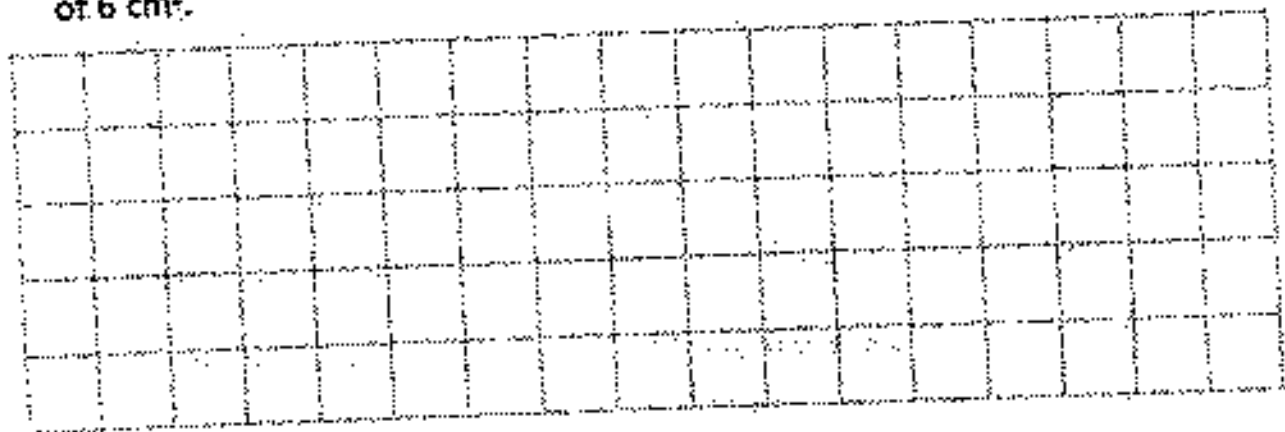


Area of A =  $\underline{\quad}$   $\text{cm}^2$     Area of B =  $\underline{\quad}$   $\text{cm}^2$     Area of C =  $\underline{\quad}$   $\text{cm}^2$

5. Draw 3 shapes on the grid lines. Find the area of each shape.



6. a) Draw 3 different shapes on the grid lines, each with an area of  $6 \text{ cm}^2$ .



- b) Do 2 polygons need to be the same size and shape to have the same area? Explain.

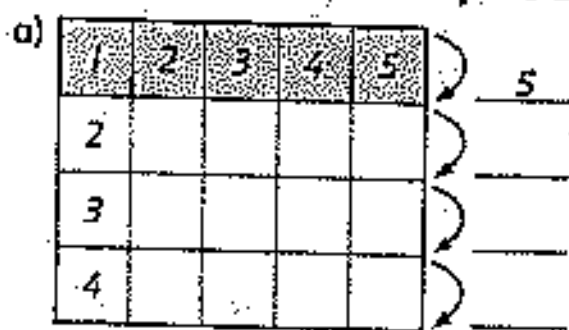
# ME3-12 Multiplying to Find Area

1	2	3	4	5	6	7	8	9	10
2									
3									
4									
5									

10  
20  
30  
40  
50

10 square units in each row  
5 rows  
50 square units

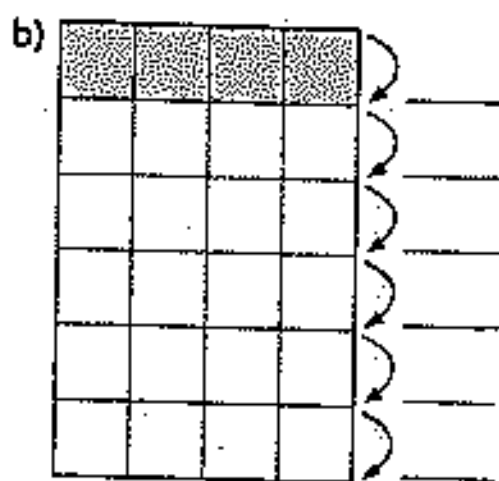
1. Count the number of square units in each row. Count the number of rows. Write the area in square units.



\_\_\_\_\_ square units in each row

\_\_\_\_\_ rows

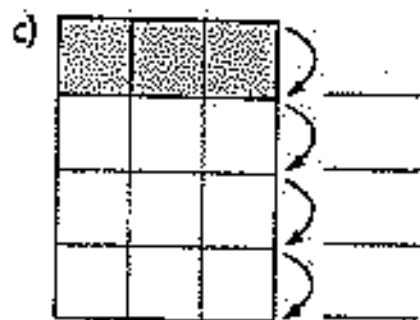
Area = \_\_\_\_\_ square units



\_\_\_\_\_ square units in each row

\_\_\_\_\_ rows

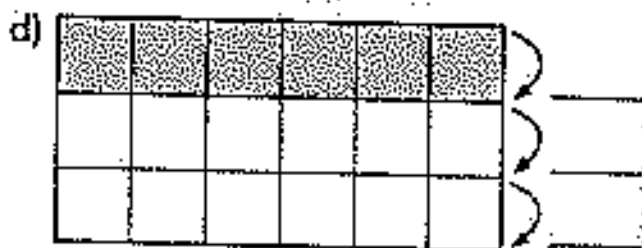
Area = \_\_\_\_\_ square units



\_\_\_\_\_ square units in each row

\_\_\_\_\_ rows

Area = \_\_\_\_\_ square units



\_\_\_\_\_ square units in each row

\_\_\_\_\_ rows

Area = \_\_\_\_\_ square units

Column  
↓

Row →

1	2	3	4	5
2				
3				
4				

4 rows

5 columns

$$4 \times 5 = 20$$

The area is 20 square units.

Count the number of rows and the number of columns. Multiply to find the total number of square units.

1	2	3	4
2			
3			
4			
5			

5 rows 4 columns

Area =  $5 \times 4 = 20$  square units

b)


       rows        columns

Area =                      square units


       rows        columns

Area =                      square units.

d)


       rows        columns

Area =                      square units