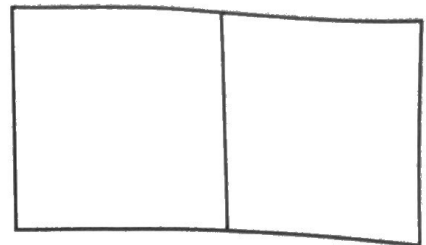
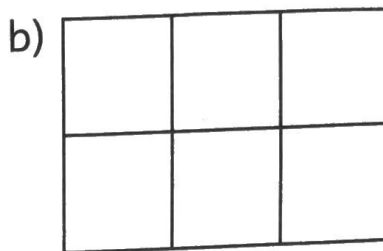
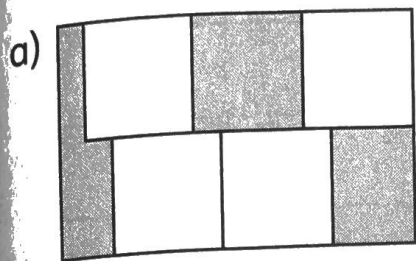


ME3-9 Shapes and Area

Two pattern block squares cover this rectangle.
 The squares are the same size.
 There are no gaps or overlaps.
 The **area** of the rectangle is 2 squares.

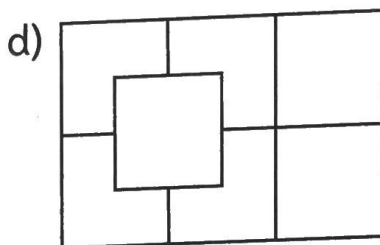
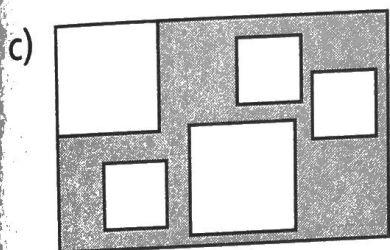


Bill measured the area of a book with squares. Write ✓ for what he did correctly. Write ✗ for what he did wrong.



- 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.



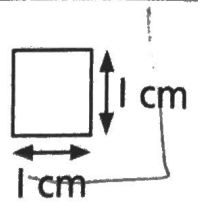
- The squares are the same size.
- The book is covered (no gaps).
- The squares do not overlap.
- The area is 5 squares.

- The squares are the same size.
- The book is covered (no gaps).
- The squares do not overlap.
- The area is 7 squares.

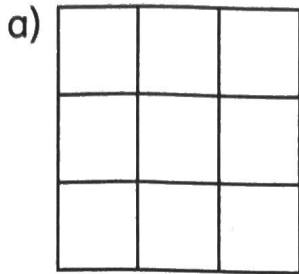
A square centimetre is a square with sides 1 cm long.

We write cm^2 for short.

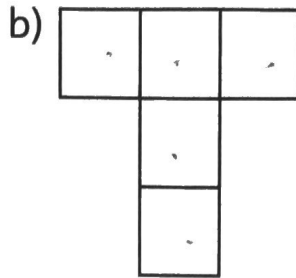
You can measure area in square centimetres.



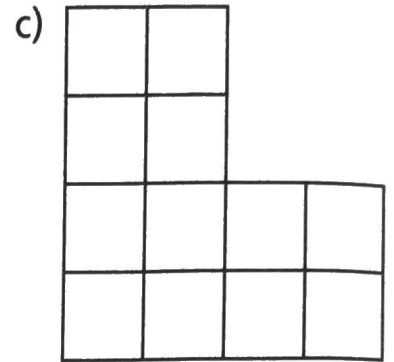
2. Find the area in square centimetres.



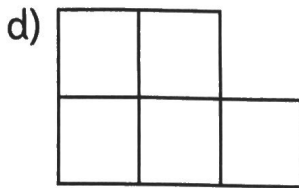
Area = 9 cm^2



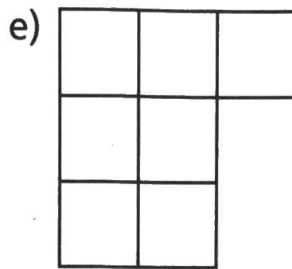
Area = 5 cm^2



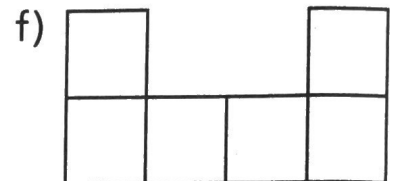
Area = 12 cm^2



Area = 5 cm^2

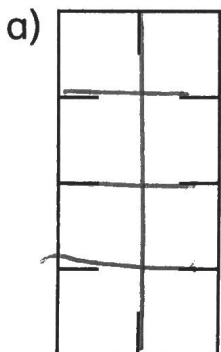


Area = 7 cm^2

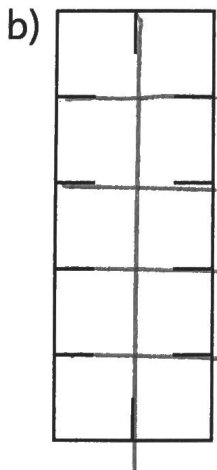


Area = 6 cm^2

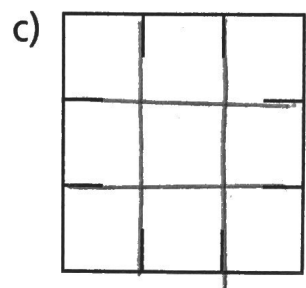
3. Use a ruler to join the marks and divide the rectangle into square centimetres. Then find the area in cm^2 .



Area = 8 cm^2

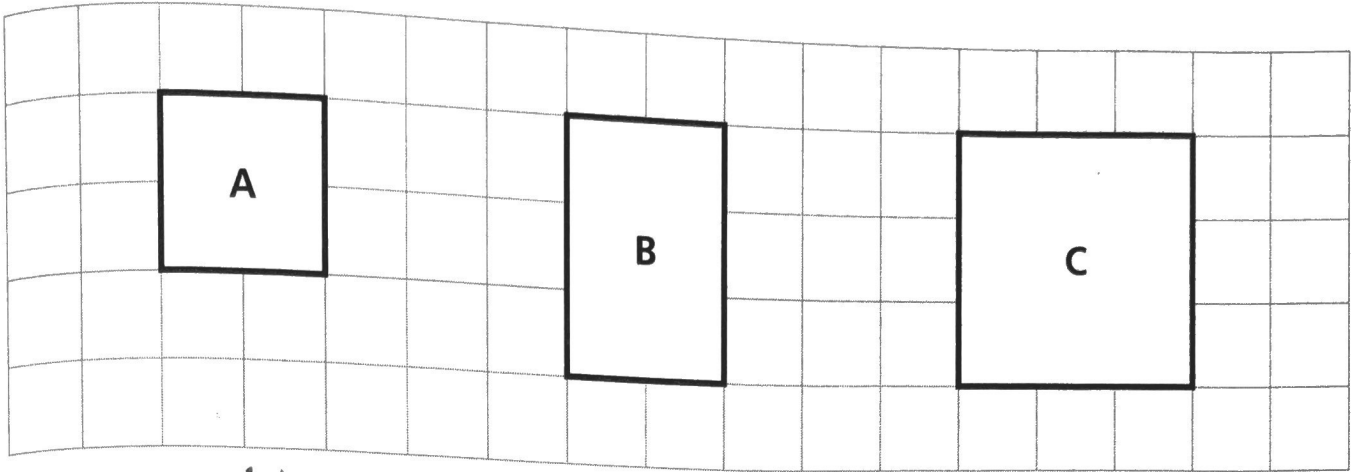


Area = 10 cm^2



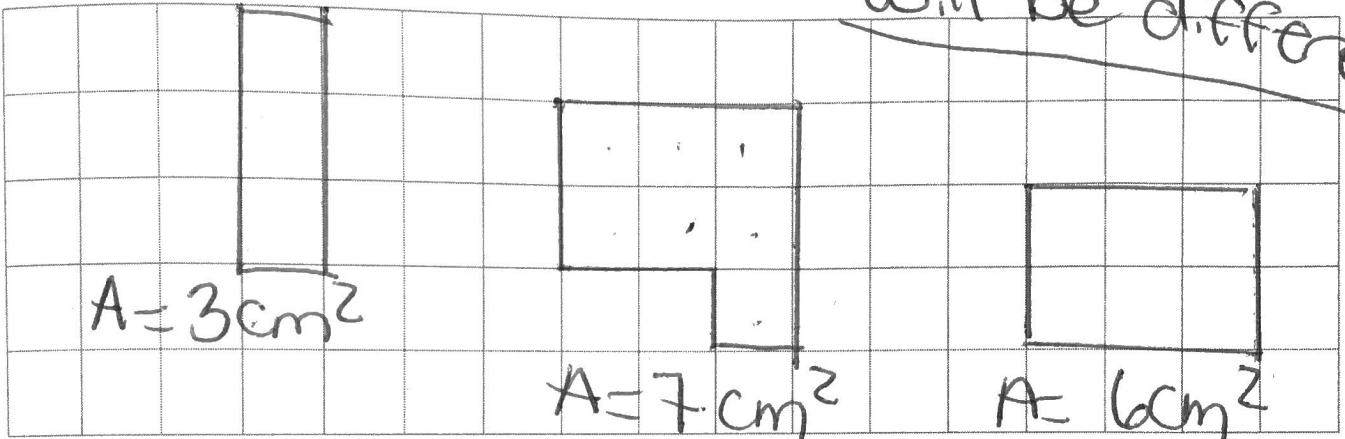
Area = 9 cm^2

4. The small squares on the grid are each 1 cm^2 . Find the areas in square units.

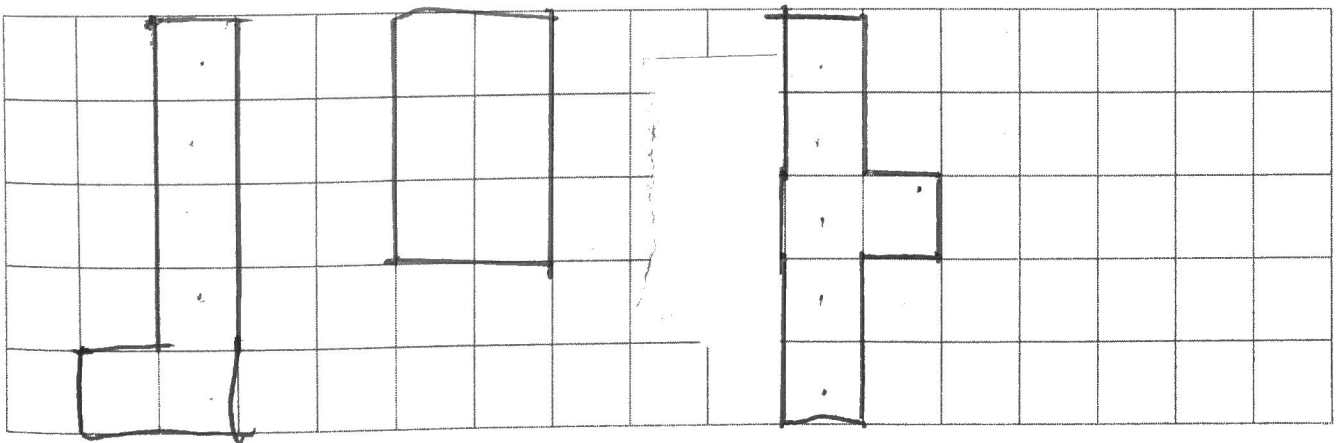


Area of A = 4 cm^2 Area of B = 6 cm^2 Area of C = 9 cm^2

5. Draw 3 shapes on the grid lines. Find the area of each shape. *Your answers will be different*



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



- b) Do 2 polygons need to be the same size and shape to have the same area? Explain. *NO, they have to have the same number of squares but do not have to be same shape.*

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.

a)

1	2	3	4	5
2				
3				
4				

5
10
15
20

5 square units in each row
4 rows
Area = 20 square units

b)

4
8
12
16
20
24

4 square units in each row
6 rows
Area = 24 square units

c)

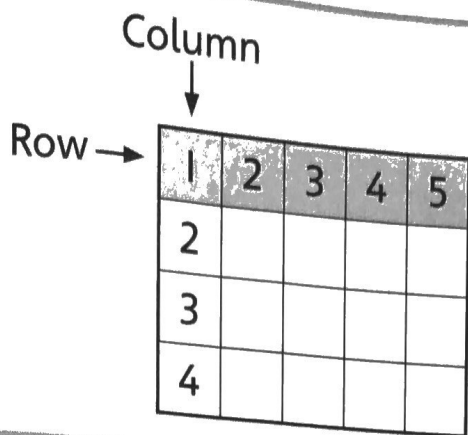
3
6
9
12

3 square units in each row
4 rows
Area = 12 square units

d)

6
12
18

6 square units in each row
3 rows
Area = 18 square units



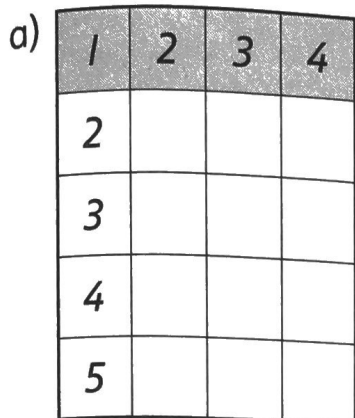
4 rows

5 columns

$4 \times 5 = 20$

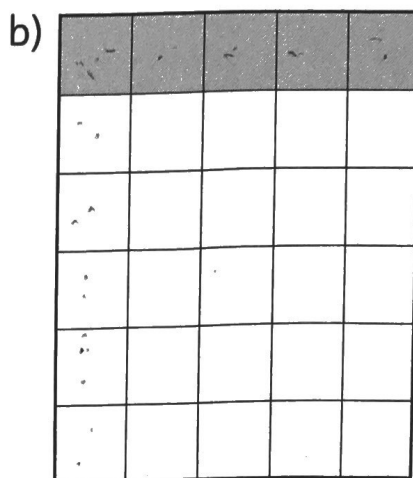
The area is 20 square units.

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



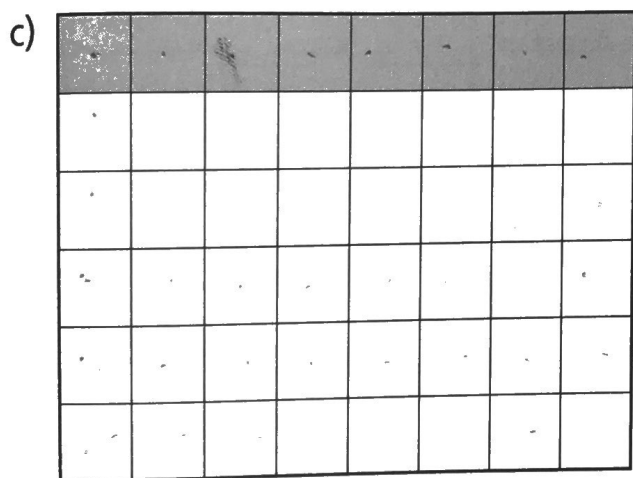
5 rows 4 columns

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



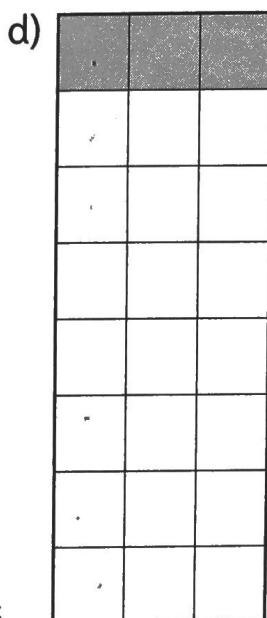
6 rows 5 columns

Area = $6 \times 5 = 30$ square units



6 rows 8 columns

Area = $6 \times 8 = 48$ square units



8 rows 3 columns

Area = $8 \times 3 = 24$ square units

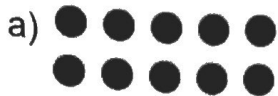
Name: Answer Key

Date: _____

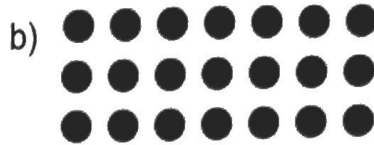
Math Check-In

PLEASE COMPLETE ON YOUR OWN WITHOUT PARENT SUPPORT

1. Write the correct multiplication sentence for these arrays.



2×5

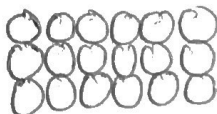


3×7

[Can't be 5×2 or 7×3 that is incorrect.]

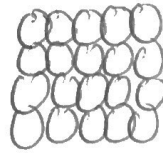
2. Draw an array AND write a multiplication sentence.

a) 3 rows 6 dots in each row



3×6

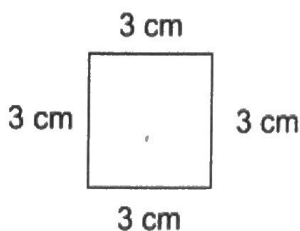
b) 4 rows 5 dots in each row



4×5

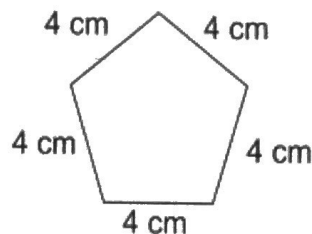
3. Write a multiplication sentence for perimeter. Then find the perimeter.

a)



$4 \times 3 = 12 \text{ cm}$

b)

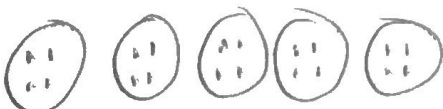


$5 \times 4 = 20 \text{ cm}$

Have to put units in answer

4. Sara bought 5 packages of pens. Each package contains 4 pens.
How many pens did she buy?

$5 \times 4 = 20$ she bought 20 pens



Name: _____

Date: _____

5. Finish the multiplication chart.

x	1	2	3	4	5
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

6. Using the multiplication chart find the answers for the following:

a) $4 \times 4 = \underline{16}$

b) $3 \times 2 = \underline{6}$

c) $5 \times 4 = \underline{20}$

d) $5 \times 3 = \underline{15}$