Fast 5

1. 665 divided by 5 =
2. ⅗ of 65 =
3. 456 x 23 =
4. 1256 - 854 =
5. 2.56 + 0.5 =

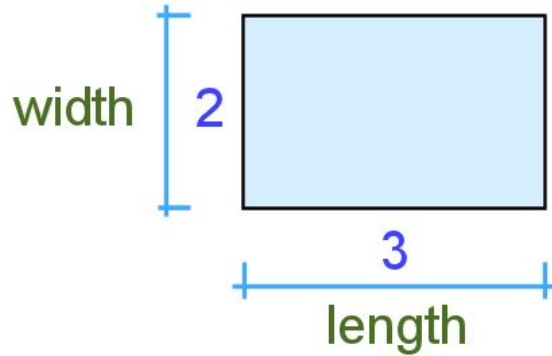# Fast 5

1. 665 divided by 5 = 133
2. ⅗ of 65 = 39
3. 456 x 23 = 10,488
4. 1256 - 854 = 402
5. 2.56 + 0.5 = 2.06

Can I recognise that shapes can have the same area but different perimeters?

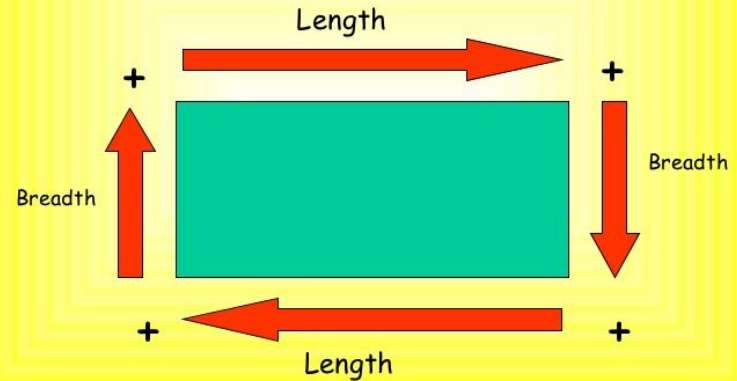# Measuring shapes

Shapes have an area and a perimeter

width | 2

3

length

Area = length x width

The perimeter is found by adding up all the **length** and **breadth** measurements.

Length

+ +

Breadth

Breadth

+ +

Length

Some shapes can have the same area but different perimeters. Both of these shapes have an area of 9㎠. Calculate their perimeters.

Some shapes can have the same area but different perimeters. Both of these shapes have an area of 9㎠. Calculate their perimeters.

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

P =20

1	2	3
4	5	6
7	8	9

P =12

1	2
3	4
5	6
7	8	9
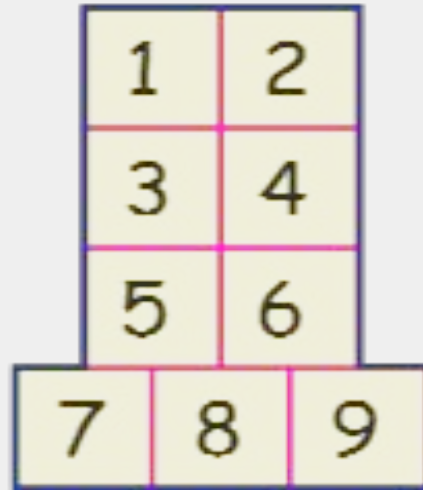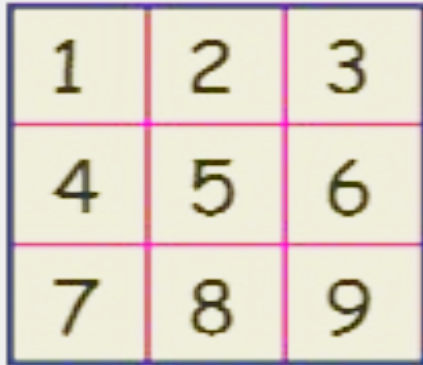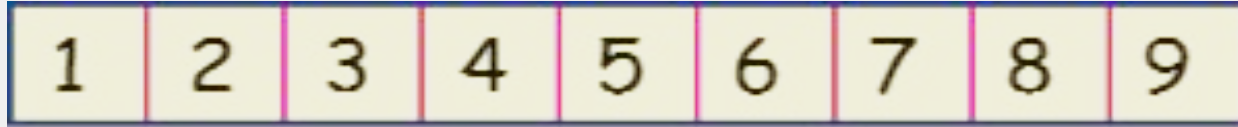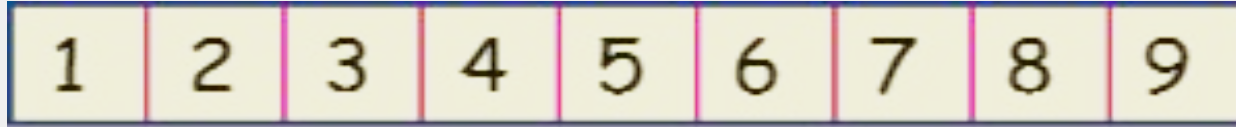
P = 14

Calculate the Perimeter - how can we work out the missing length?

What is the perimeter of the figure below?

5 cm

3 cm

4 cm

4 cm

9 cm

Calculate the Perimeter - how can we work out the missing length?
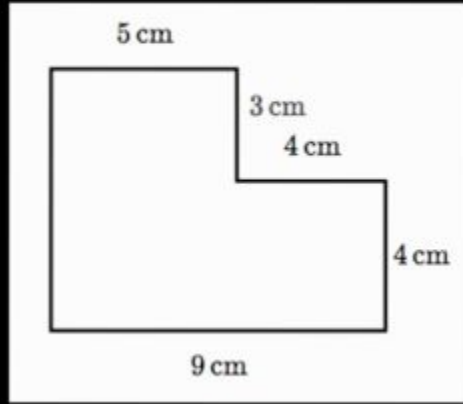
The missing length is found by adding the total of the 2 parallel lengths on the other side 4cm + 3cm = 7cm.

So to calculate the total perimeter,

 we must add

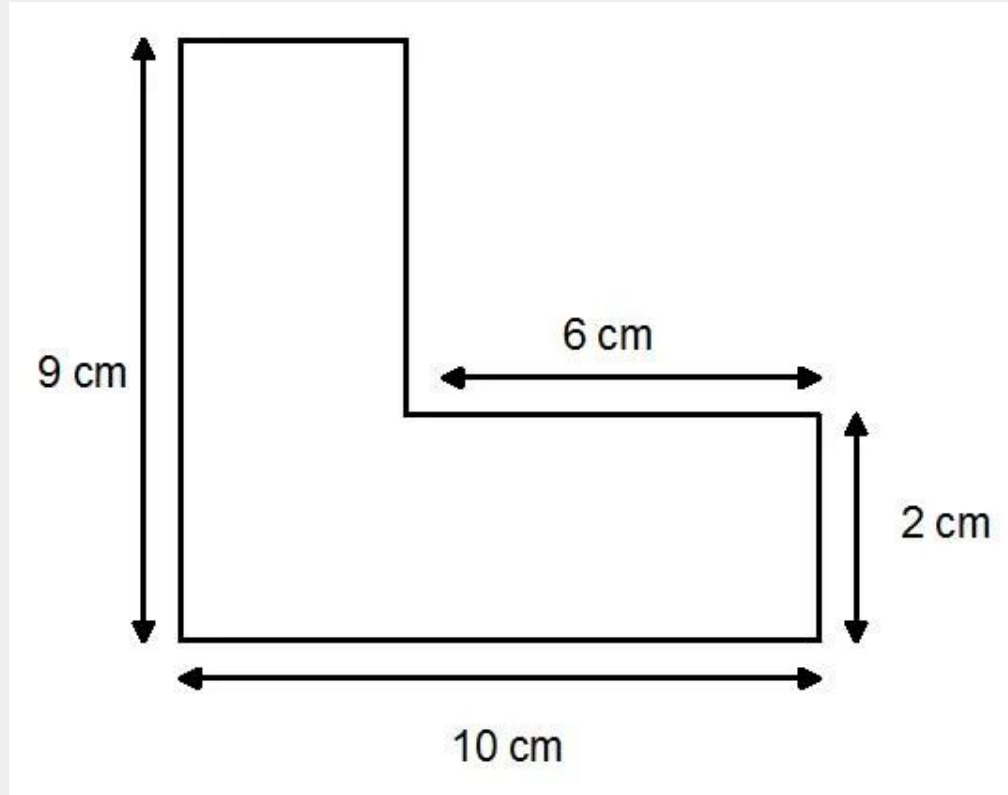5+3+4+4+9+7 = 32cm

What is the perimeter of the figure below?

5 cm

3 cm
4 cm

4 cm

9 cm

Calculate the perimeter - use the information given to calculate the missing lengths

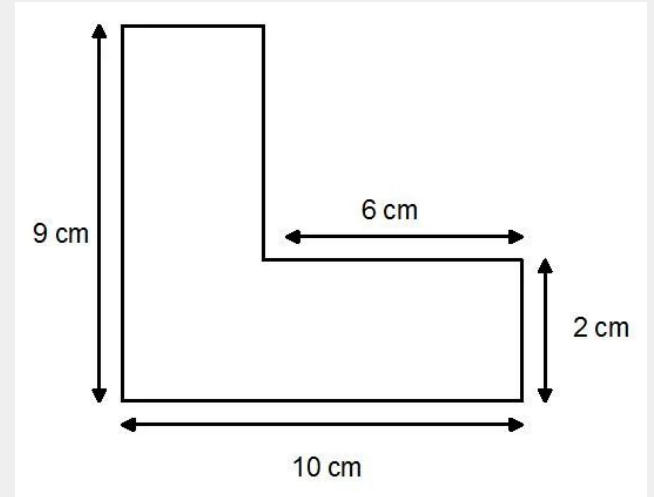Calculate the perimeter - use the information given to calculate the missing lengths

The top width is found by 10cm- 6cm = 4cm

The side length is 9cm-2cm = 7cm
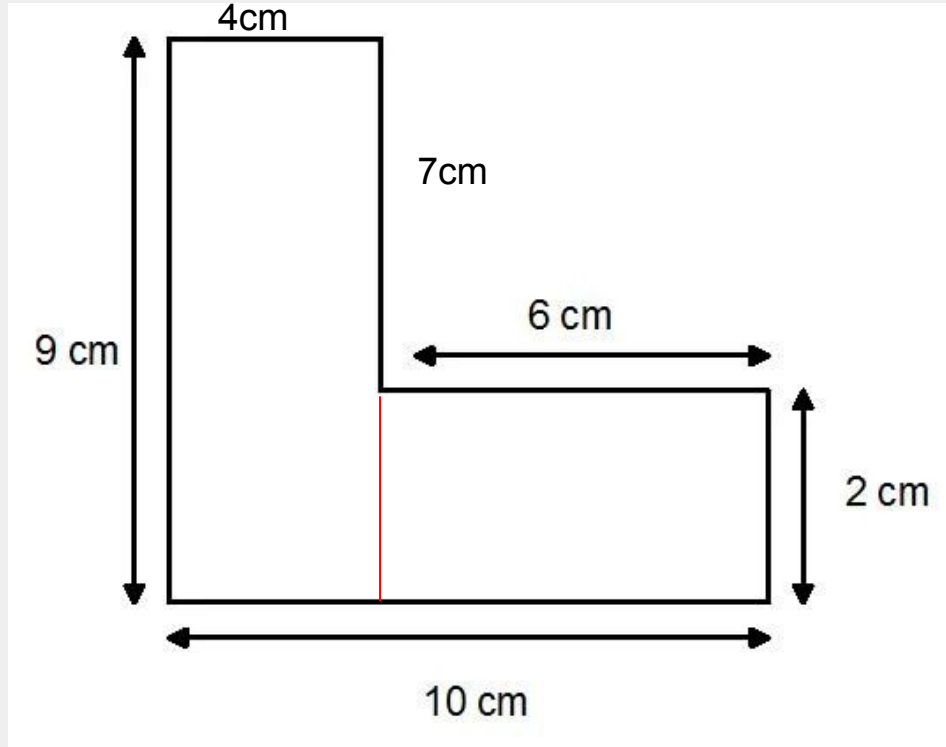
Now we can work out the perimeter

4 +7+6+2+10+9 = 38

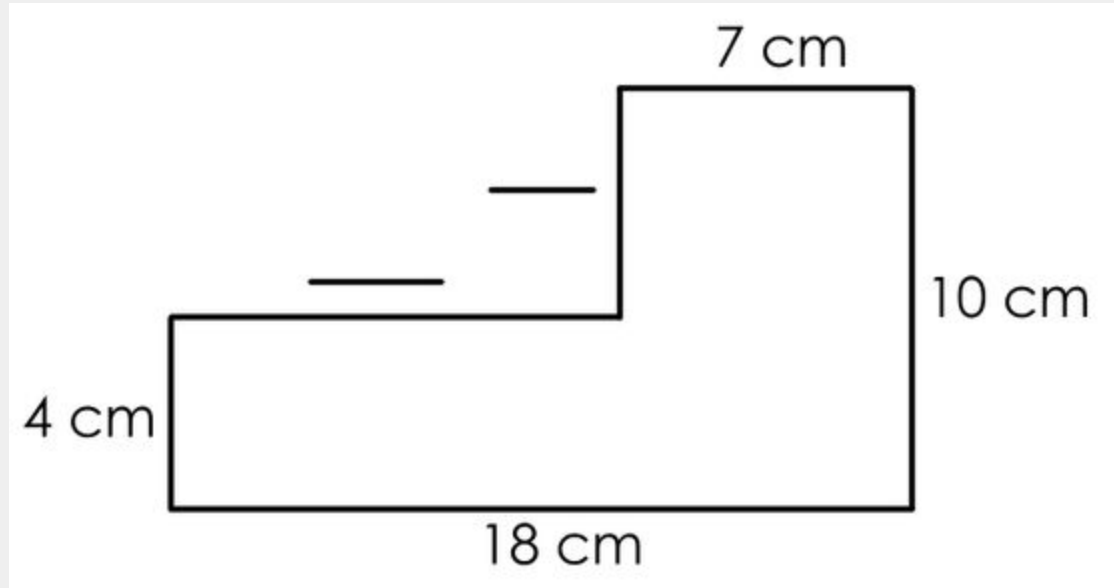# Calculate the area - first divide the compound shape into 2 rectangles as shown

4cm

7cm

6 cm

9 cm

2 cm

10 cm

2 rectangles are
$9cm^2$ x $4cm^2$ = $32cm^2$

$6cm^2$ x $2cm^2$ = $12cm^2$
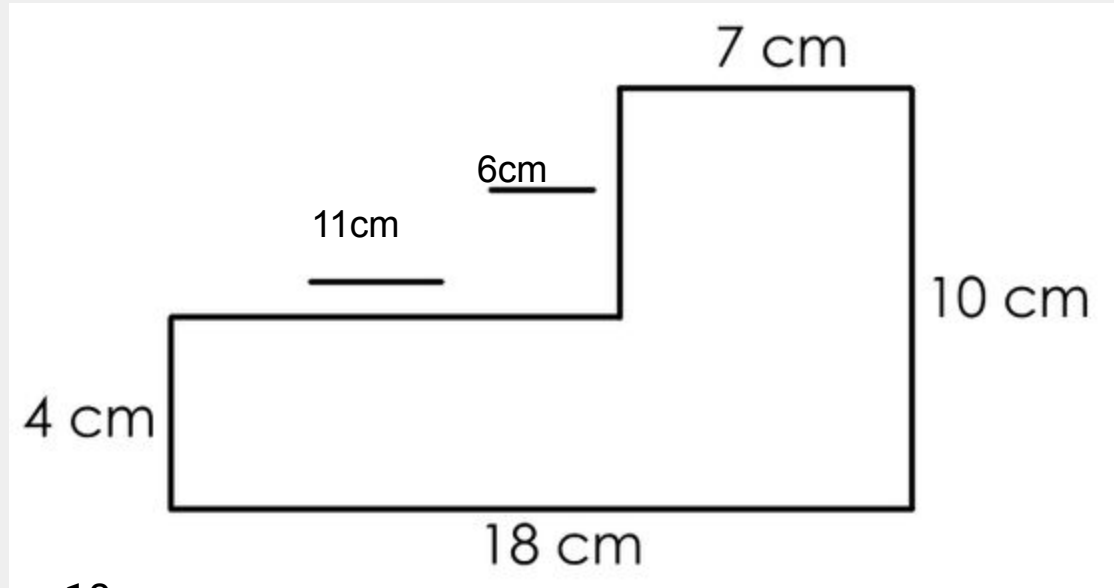
Now we add them together to get the whole area,

$32cm^2$ + $12cm^2$ = $44cm^2$

Calculate the perimeter - use the information in the diagram

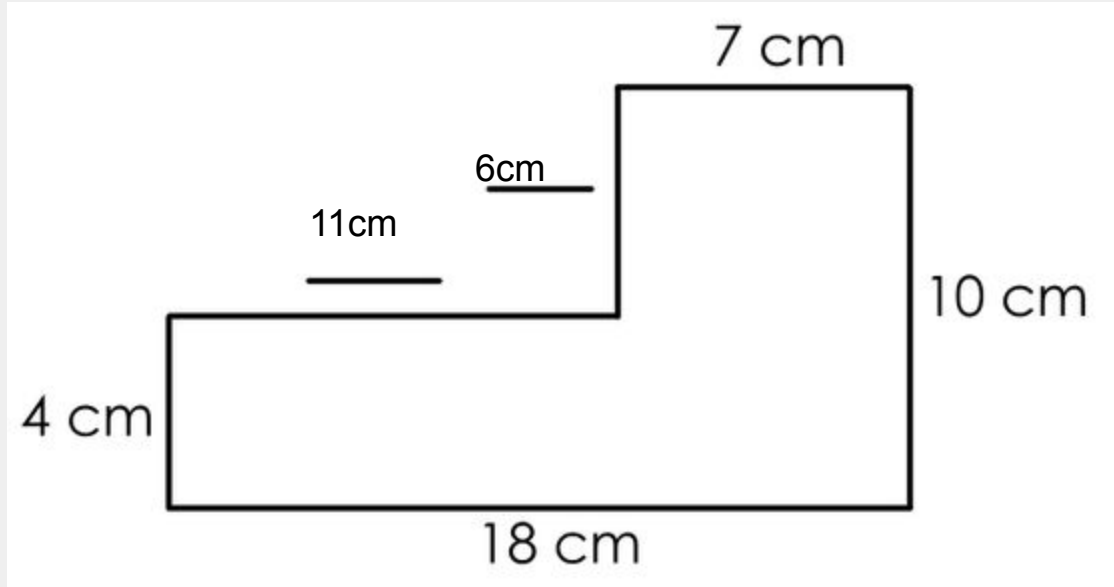# Calculate the perimeter - use the information in the diagram

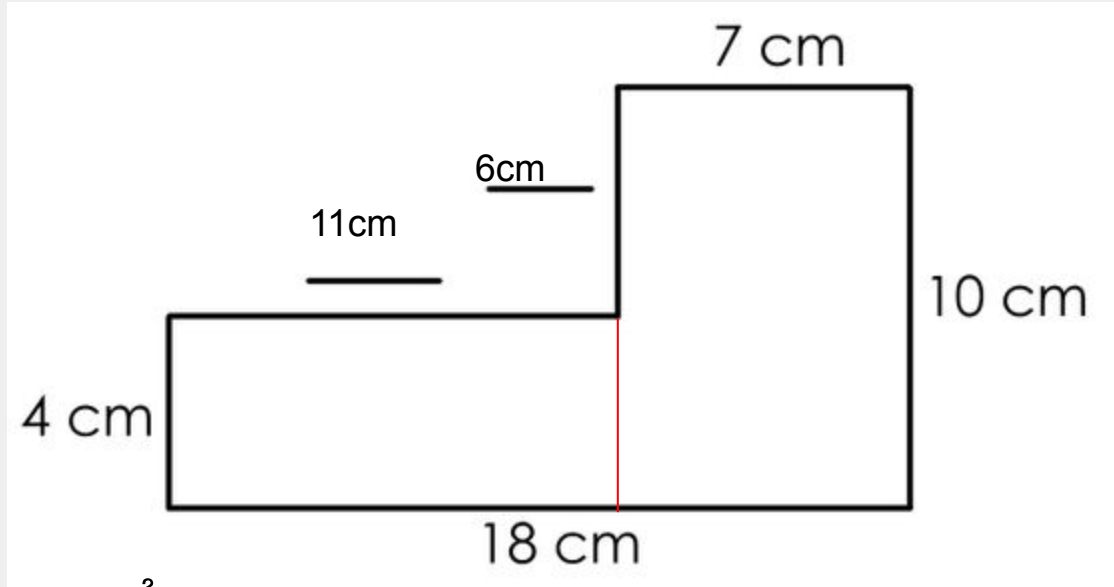Perimeter = 10 +7+6+11+4+18

Perimeter = 56cm

Calculate the area - divide the shape into two rectangles

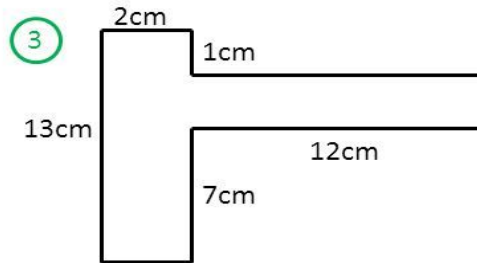# Calculate the area - divide the shape into two rectangles

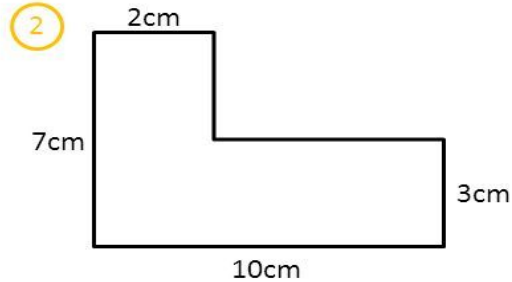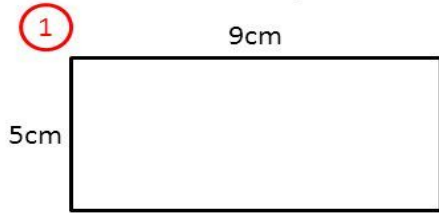Rectangle 1 = 4cm^2 x 11cm^2 = 44 cm^2

Rectangle 2 = 7cm^2 x 10cm^2 = 70cm^2

Area = 44cm^2 + 70cm^2

= 114cm^2

Try this:

Calculate the area and perimeter of each of these shapes.

1

9cm

5cm

2

2cm

7cm

3cm

10cm

3

2cm

1cm

13cm

12cm

7cm

Answers

Calculate the area and perimeter of each of these shapes.
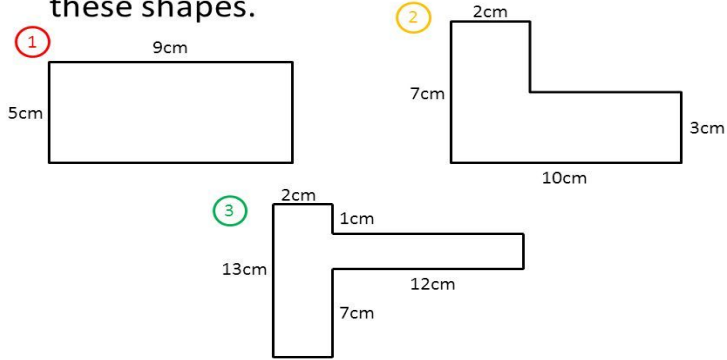
	area	Perimeter
1	45cm²	28cm
2	38cm²	34cm
3	86cm²	54cm

Tasks

Red

On the next slide are some shapes, calculate the area and perimeter for shapes A to G. Record these in a table.

Yellow

On the next slide are some shapes, calculate the area and perimeter for all the shapes. Record these in a table. Which shapes have the same perimeter, but different areas?

Green

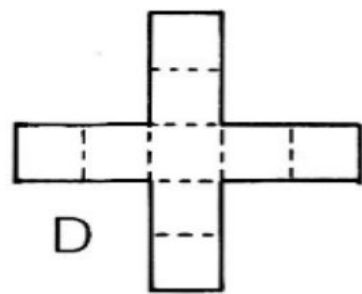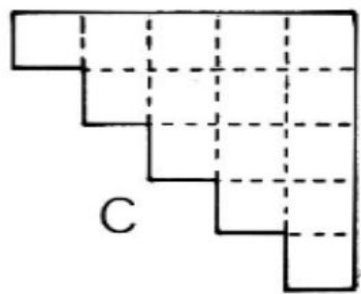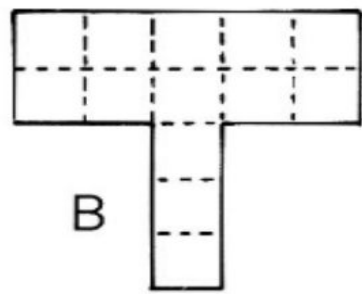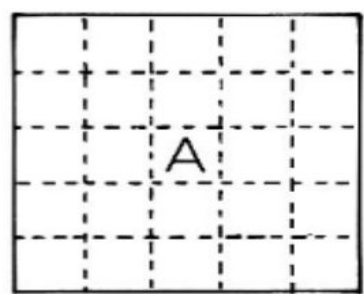On the next slide are some shapes, calculate the area and perimeter for all the shapes. Record these in a table. Which shapes have the same perimeter, but different areas?

Draw as any different shapes, with an area of 12 but different perimeters.

A   B   C   D

E   F   G   H

J   K   L   M
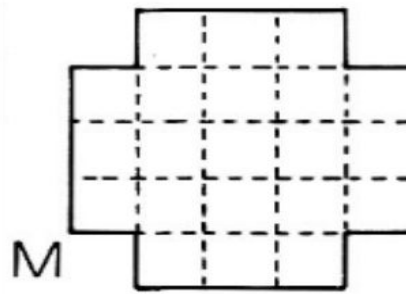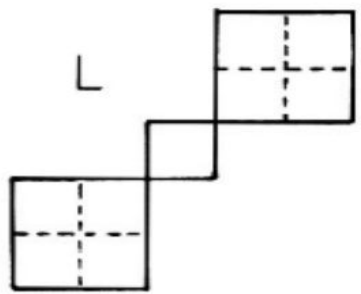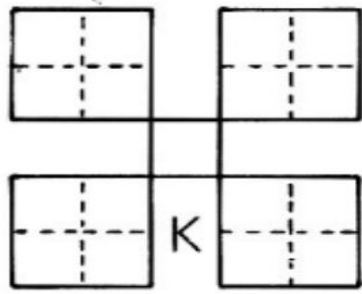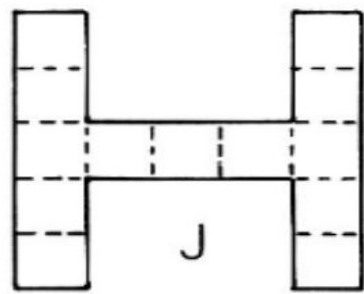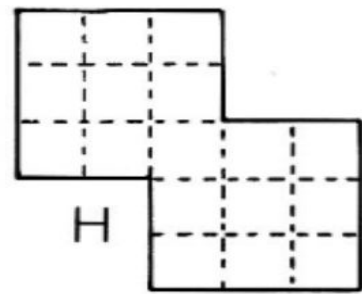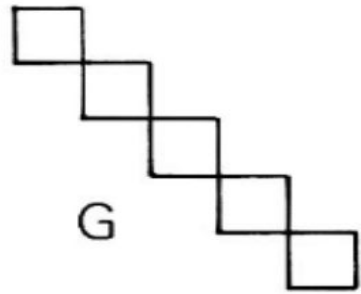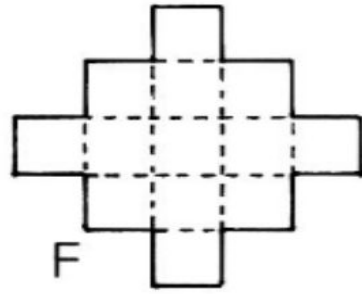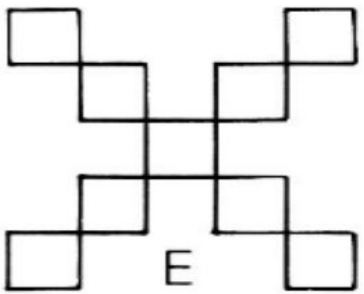
Shapes M H G A C have a perimeter of 20 , but different areas
L and D have the same area
F and B have the same area

Shape	Area	Perimeter
A	25	20
B	13	20
C	15	20
D	9	20
E	9	3
F	13	20
G	5	20
H	17	20
J	13	28
K	17	36
L	9	20
M	21	20