| TOPIC 10 | SHAPES | INTERVENSI |
|----------|--------|-----------|

Learning Area        :  Two-Dimensional Shapes
Learning Objectives :  1. Find the perimeter and area of composite 2-D shapes
Learning Outcomes :   i. Find the perimeter of 2-D composite shapes.

Teaching Aids

Duration: 1 hour

Diagram of 2-D shapes, concrete objects.

Set Induction

Recall previous knowledge on shape and perimeter.

1.  Teacher shows several shapes and asks pupils to name them.
2.  Teacher asks pupils to recall the definition of perimeter.
3.  Teacher asks pupils to calculate the perimeter of the shapes.

Step 1

| Pupils' Activity.<br><br>Pupils name the shapes.<br><br>Pupils gives the definition of perimeter.<br><br>Pupils calculate the perimeter. | Notes To Teachers:<br><br>- Refer to HSP page 20.  ( points to note )<br>- Prepare shapes with measurement. |
|---|---|
| Teacher's Instruction:<br><br>• What shapes is this?<br>• What is perimeter?<br>• Calculate the perimeter of each shape. | Expected answers from pupils:<br><br>• Triangle, square, rectangle ……….<br>• Refer HSP page 20. |

Step 2

- Teacher forms a composite shape using the shapes on the board.
- Teacher asks pupils to highlight the auter lines.
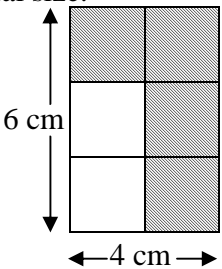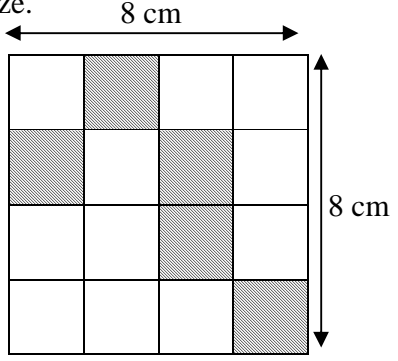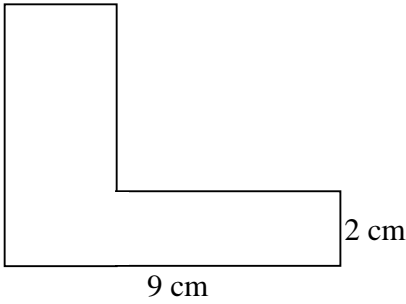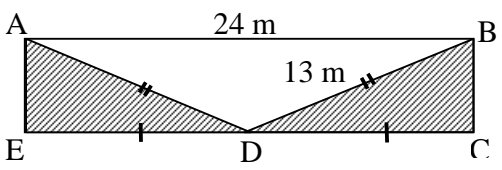- Teacher asks pupils to calculate the perimeter.

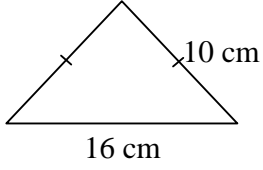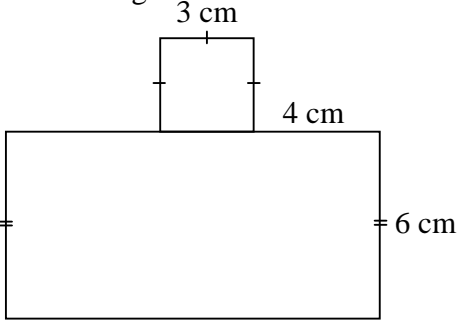| Pupils' Activity | Notes To Teachers: |
|------------------|--------------------|
| Pupils highlight the outer lines<br><br>Pupils calculate the perimeter. | - The composite shape must consist of two or more shapes. |

| Teacher's Instruction: | Expected answers from pupils: |
|------------------------|-------------------------------|
| • What have I done?<br>• What is this shape?<br>• What is a composite shape?<br>• What is perimeter?<br>• Highlight the outer lines.<br>• Calculate the perimeter. | • You have joined a few shapes.<br>• Composite shape.<br>• A combination of a few shapes. |

Step 3
- Teacher shows a few more examples.
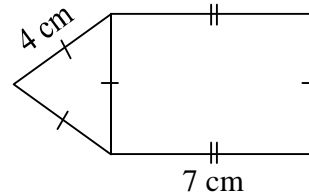
## WORKSHEET

Extract from Masmatics page 94 – 96

| 1 | Diagram consists of several squares of equal size. |
|---|---|

6 cm

←4 cm→

Calculate the perimeter in cm, of the shaded regions?

| 4 | Diagram consists of several squares of equal size. |
|---|---|

8 cm

8 cm

Calculate the perimeter, in cm, of the shaded parts.

| 2 | Diagram shows a 2-D shape. |
|---|---|

3 cm

7 cm

2 cm

9 cm

Calculate the perimeter in cm, of the diagram.

| 5 | Diagram shows a rectangle ABCD and isosceles triangle ABD.<br>EDC is a straight line |
|---|---|

A          24 m          B

13 m

E          D          C

Calculate the perimeter, in cm, of the shaded region.

| 3 | |
|---|---|

10 cm

16 cm

Calculate the perimeter, in cm, of the whole diagram.

| 6 | Diagram shows a composite of a square and a rectangle. |
|---|---|

3 cm

4 cm

6 cm

12 cm

Calculate the perimeter, in cm, of the whole diagram.

| 7 | Diagram shows seven polygons with equal size. | 9 | Diagram shows a composite of an equilateral triangle and a rectangle. |

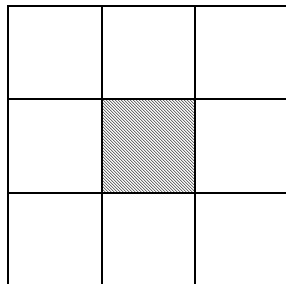**7** Diagram shows seven polygons with equal size.
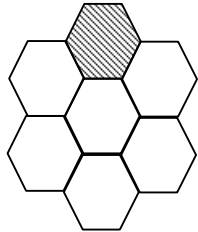
Perimeter for the shaded region is 12 cm. Find the perimeter, in cm, of the whole diagram.

**9** Diagram shows a composite of an equilateral triangle and a rectangle.
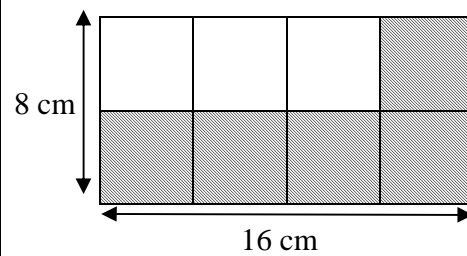
4 cm

7 cm

Calculate the perimeter, in cm, of the whole diagram.

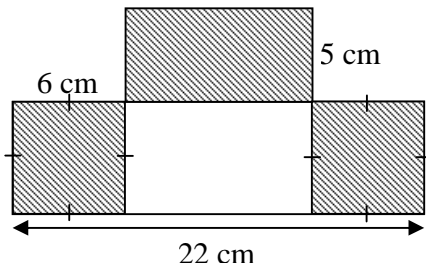**8** Diagram consists of several squares of equal size.

The perimeter of the shaded region is 16 cm.
Calculate the perimeter, in cm, of the whole diagram.

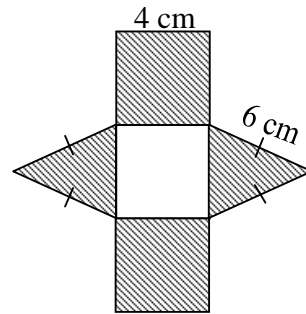**10** Diagram consists of several squares of equal size.

8 cm

16 cm

Find the perimeter, in cm, of the shaded regions.
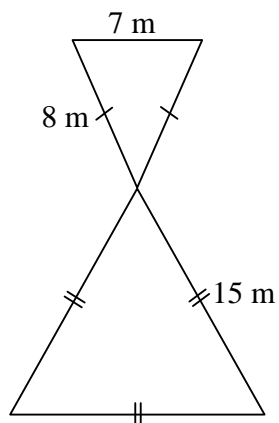
| 11 | Diagram shows 2 composites of rectangles and squares. |
|---|---|

5 cm

6 cm

22 cm

Calculate the perimeter of the shaded regions.

| 13 | Diagram shows a composite of 3 squares and 2 isosceles triangles. |
|---|---|

4 cm

6 cm
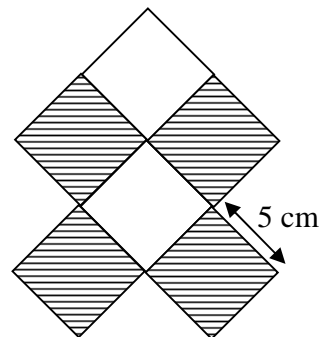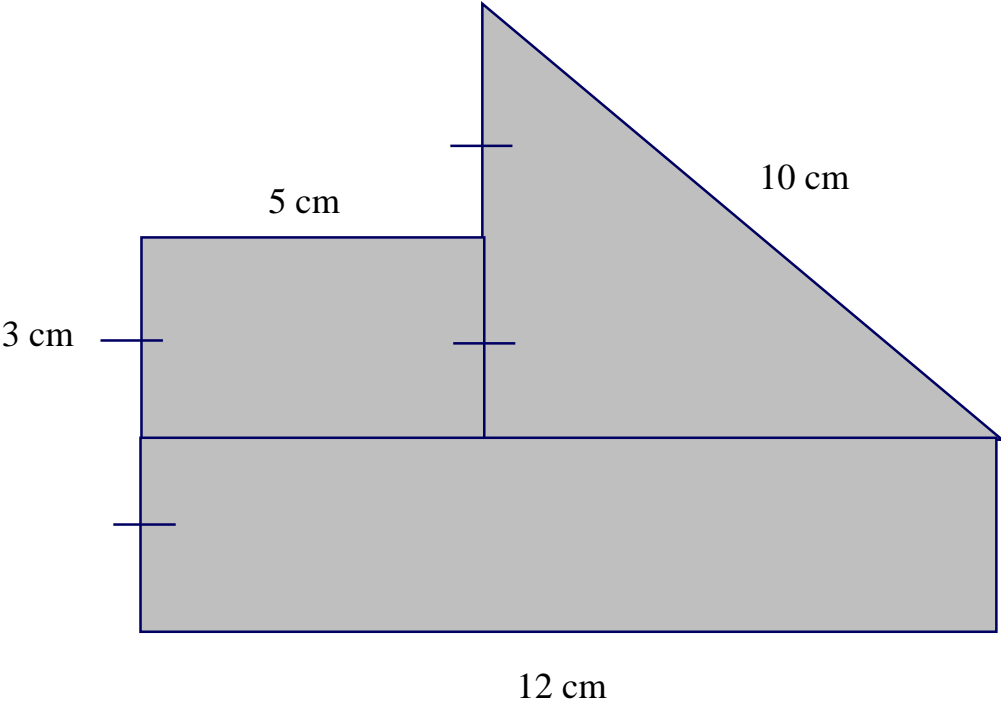
Calculate the perimeter, in cm, of the shaded regions.

| 12 | Diagram shows an isosceles triangle and an equilateral triangle. |
|---|---|

7 m

8 m

15 m

Calculate the perimeter, in cm, of the whole diagram.

| 14 | Diagram consists of several squares of equal size. |
|---|---|

5 cm

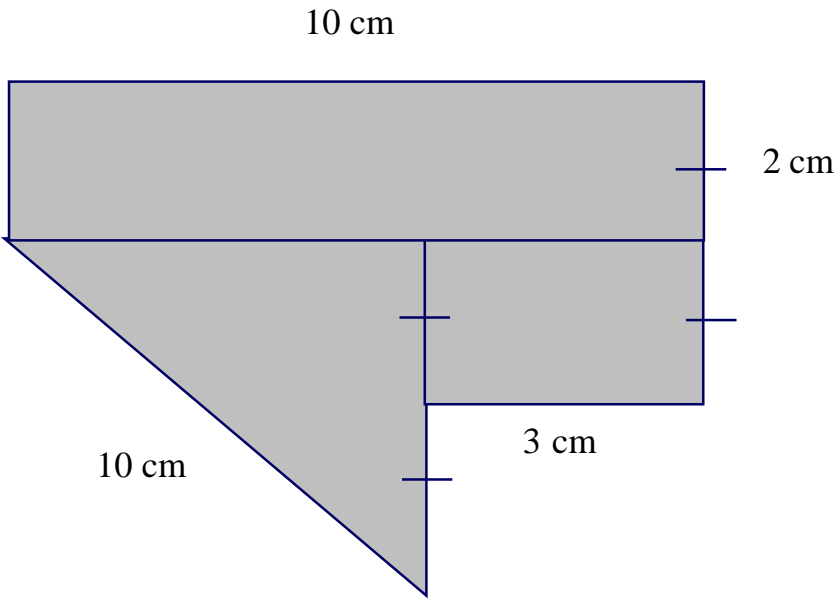Calculate the perimeter, in cm, of the shaded area.

## WORKSHEET

**Calculate the perimeter of the diagram below:**

1.



5 cm

10 cm

3 cm

12 cm

Perimeter =

2.

10 cm

2 cm

10 cm

3 cm

Perimeter =