

Exercise 2015-7 EM-00003(4)

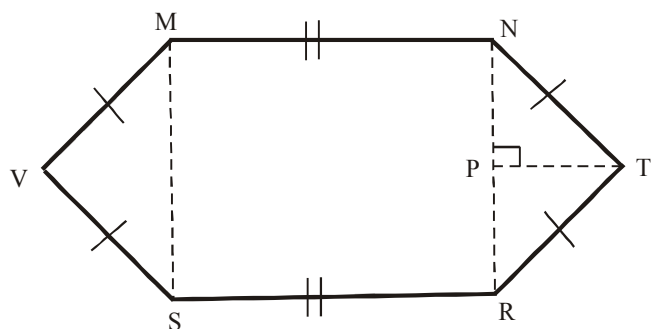
(1) How many hectares will the following areas cover?

(a) $66\,000\,000\text{ cm}^2$ (first convert to m^2)

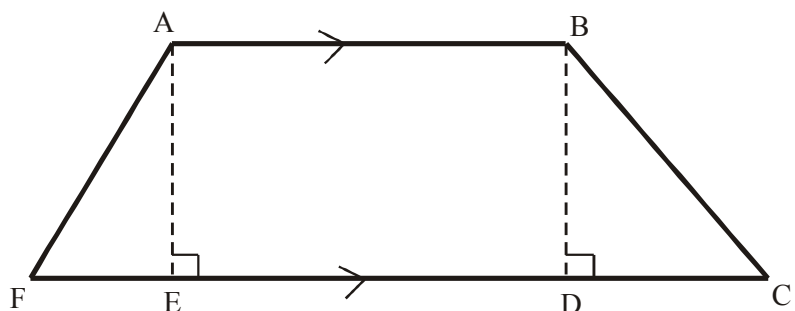
(b) 63 km^2 (first convert to m^2)

(2) Calculate the perimeter (in mm) and area (in cm^2) of each of the following figures:

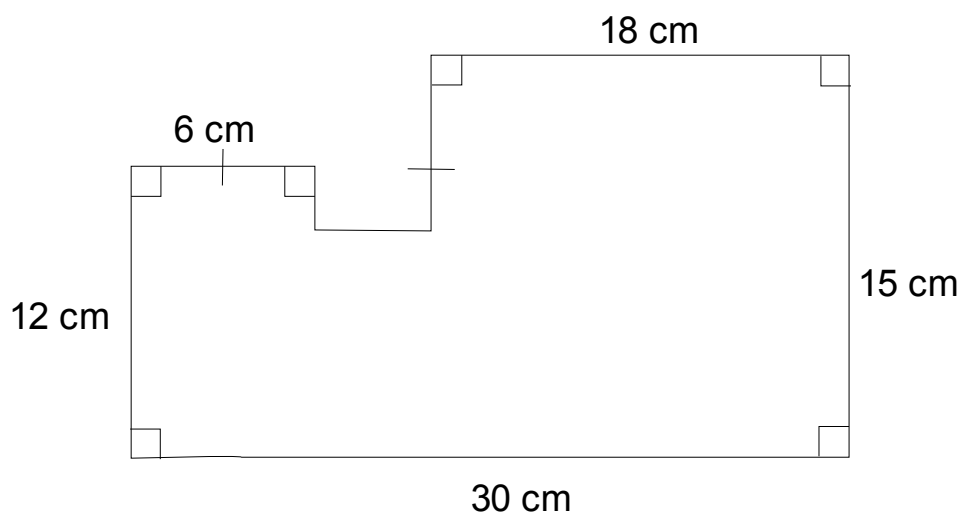
- (a) $MN = 700\text{ mm}$
 $NR = 480\text{ mm}$
 $NT = 300\text{ mm}$
 $PT = 250\text{ mm}$
 $\triangle VSM \cong \triangle TNR$
 $MNRS$ is a rectangle.



- (b) $FC = 9,1\text{ cm}$
 $EF = 2,1\text{ cm}$
 $DC = 2,3\text{ cm}$
 $AE = 3\text{ cm}$
 $AF = 3,5\text{ cm}$
 $BC = 3,8\text{ cm}$



(c)

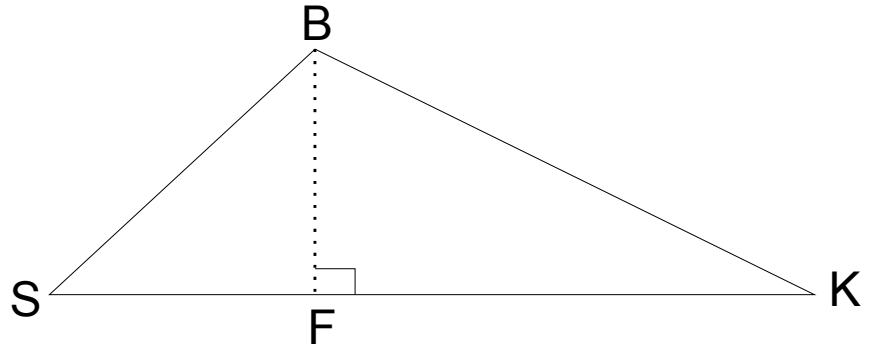


(3) In the adjacent sketch:

$$SK = 20 \text{ m}$$

$$\text{Area } \triangle SKB = 80 \text{ m}^2$$

Calculate the length of BF.



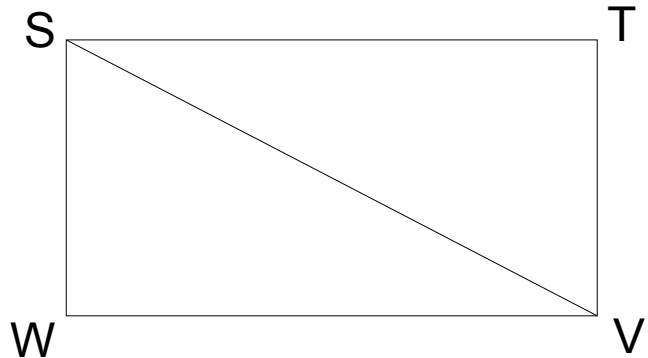
(4) In the adjacent sketch

STVW is a rectangle

$$SW = 44 \text{ mm}$$

$$\text{Area } STVW = 2\,640 \text{ mm}^2$$

Calculate: (a) the length of VW
(b) the area of $\triangle SWV$



(5) A square piece of land has to be fenced in. The area of the piece of land is $6\,400 \text{ m}^2$.
Fencing of the land will cost R45 per meter. First draw a sketch and fill in the information.

- (a) Calculate the length of the piece of land.
- (b) Calculate the perimeter of the piece of land.
- (c) Calculate the cost to fence the entire piece of land.

(6) You have to make a kite. See the adjacent sketch.

The length of the kite, KM has to be 70 cm and
the width, LN 30 cm.

$$KO = LN$$

Calculate: (a) the length of OM
(b) the lengths of LO and ON
(c) the area of the kite.

