

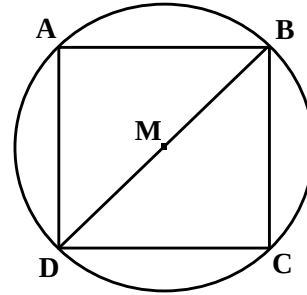
Exercise 2015-9EN-00009(4)

- (1) ABCD is a square with AB 5 cm.

M is the midpoint of the circle.

Calculate:

- (a) The length of BD, approximated to the nearest integer.  
(b) The area of the circle, correct to one decimal.



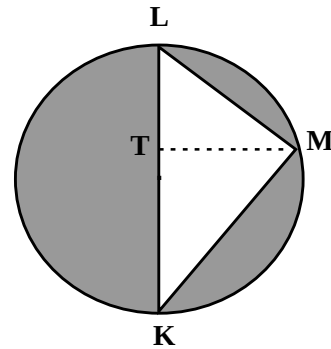
- (2) LK is the diameter of the circle.

$TM \perp LK$  and  $LM \perp KM$

$LM = 60$  mm and  $KM = 80$  mm.

Calculate:

- (a) the area of  $\triangle LKM$ .  
(b) the length of LK.  
(c) the length of TM.  
(d) the area of the shaded section.



- (3) Calculate the area of the circle with a circumference of 308 cm.

- (4) A rectangular floor with dimensions  $5 \text{ m} \times 7 \text{ m}$ , has to be tiled. The tiles are squares with sidelength 75 cm.

If the price of one tile is R18,20, calculate the total cost to tile the floor.