

Test on Geometry

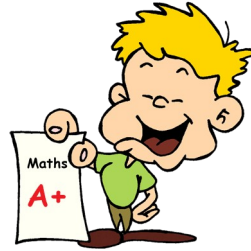
You have now 15 minutes to prepare your oral.

Start your recording by giving your name and the number of your paper.

Alloted time : 5 minutes

Calculators allowed

Paper number **1**



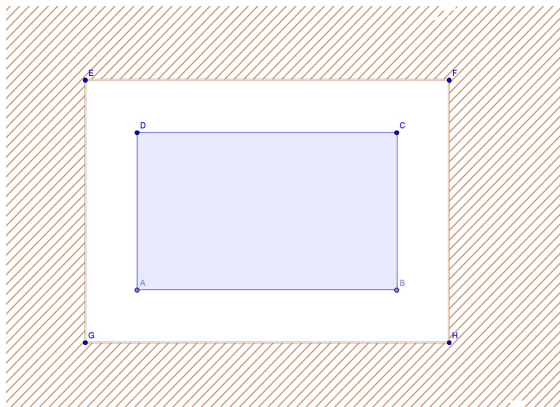
Ex1 :

Mr Johnson has a rectangular swimming pool that is 25m long and 10m wide.

Around the perimeter of the pool he builds a concrete sidewalk 2m wide.

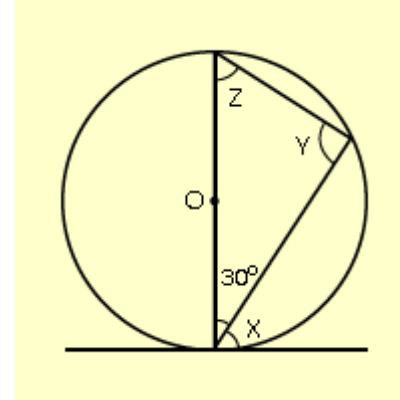
What is the area of the sidewalk ?

(*) concrete : en béton



Ex2 :

1/ Describe the following diagram.



2/ Find x , y and z . Give reasons.

3/ Given that the diameter measures 4cm, find the area of the triangle.

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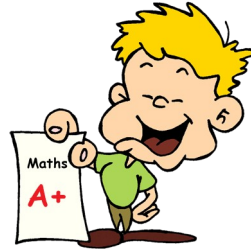
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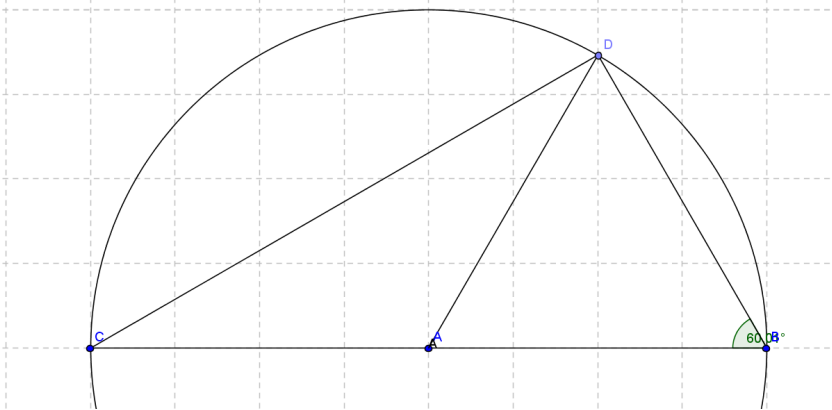
Calculators allowed

Paper number 2



Ex1

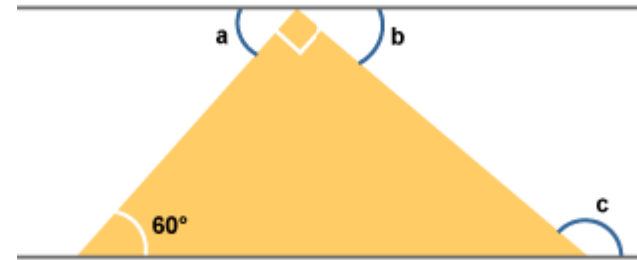
1/ Describe the following diagram :



2/ Knowing that $AB = 4$, work out the distance DC.

Ex2 :

(The diagram is not drawn to scale)



a/ Describe this diagram.

b/ Find the angles a ; b and c. Give reasons.

c/ Given that the smaller triangle's leg measures 3cm, work out the area of the triangle.

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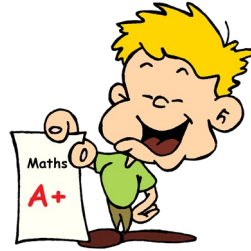
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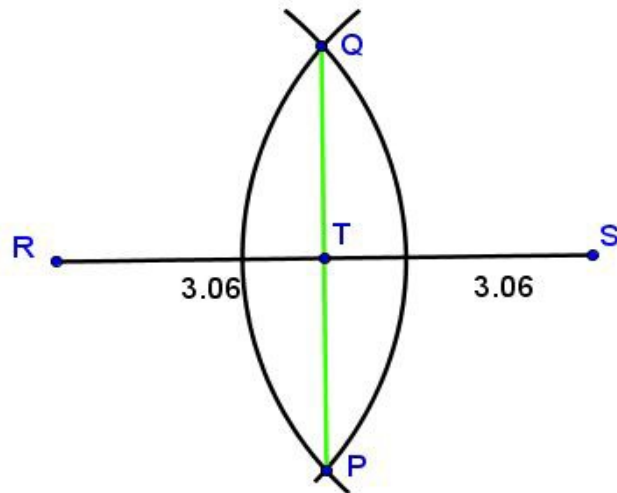
Calculators allowed

Paper number 3



Ex1 :

1/ Explain the construction below : tools, process and result.

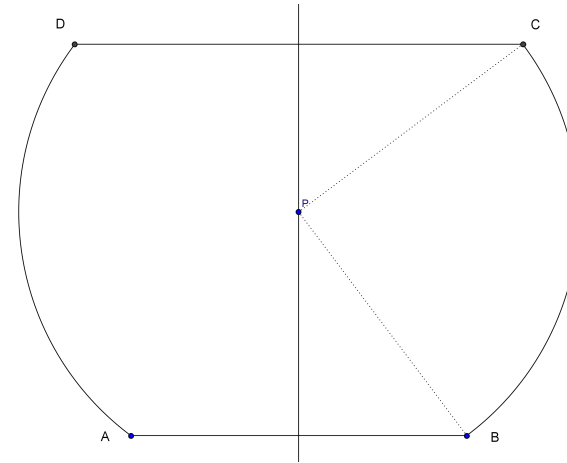


2/ Do you know other constructions ? Describe them.....

Ex2 :

The diagram below shows the cross-section of a goldfish bowl.

The bowl can be thought of as a sphere centre P and radius 10cm with its top removed and its base flattened



$AB = 12 \text{ cm}$ and $CD = 16 \text{ cm}$.

The vertical line shows the line of symmetry.

Looking for the height of the bowl, a student draws the lines PC and PB.

Then he states that the height of the bowl is equal to $8 + 6 = 14 \text{ cm}$.

Explain his ideas.