

GRADE 6 - GRADE 7 - GRADE 8

MY EASTER NOTEBOOK



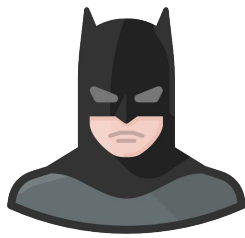
ARE YOU READY ?

In this book, you can find the following 2 games :

- Who is Batman's best friend ?
- Calculate my area !

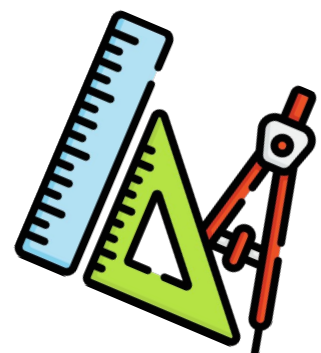
It's your turn to play, open this book to start !

Exercise #1 :



Batman is a famous comic book character who spreads his bat wings at night to annihilate the bad guys and rescue the good guys. He always acts alone and trusts no one. And yet, he confided to us that he only trusted one person in the world. To find out who it is, follow these instructions :

- 1) Draw a rectangle ABCD with $|AB| = 8\text{cm}$, $|BC| = 10\text{cm}$. A top left, B top right, C bottom right. Place H midpoint of $[AC]$, E midpoint of $[AH]$, M midpoint of $[DC]$ and F midpoint of $[BH]$.
- 2) Place x and Y such that HXMY is a rhombus and $|XY| = 11\text{ cm}$ (x is on the left).
 - a. Line EC intersects line MY at point N and line FD intersects line MX at point L.
 - b. The parallel to the line AD passing through the point L intersects the line HX at the point I.
 - c. The parallel to the line AD passing through the point N intersects the line HY at the point K.
 - d. The parallel to the line AB passing through the point E intersects the line LI at the point G.
 - e. The parallel to line AB passing through point F intersects line NK at point J.
 - f. The perpendicular to the line MN passing through the point H intersects the line JN at the point P.
 - g. The perpendicular to the line LN passing through the point H intersects the line GL at the point O.





KEEP IT UP !

- h. Lines GM and CP intersect at point W. Lines JM and DO intersect at point V. Lines PI and FW intersect at point S. Lines OK and EV intersect at point R. Lines OP and NS intersect at point intersect at point U. Lines OP and LR intersect at point T.
 - i. Draw a small arc of circle C_1 with center M and connecting E and F.
 - j. Draw a small arc of a circle C_2 with center M and connecting V and W.
3. Draw the triangles GHI and JHK, the trapezium RSUT, the two arcs C_1 and C_2 , the segments [OV] and [PW], the polygonal line EADOLMNPCBF.

Who is Batman's only friend ? _____

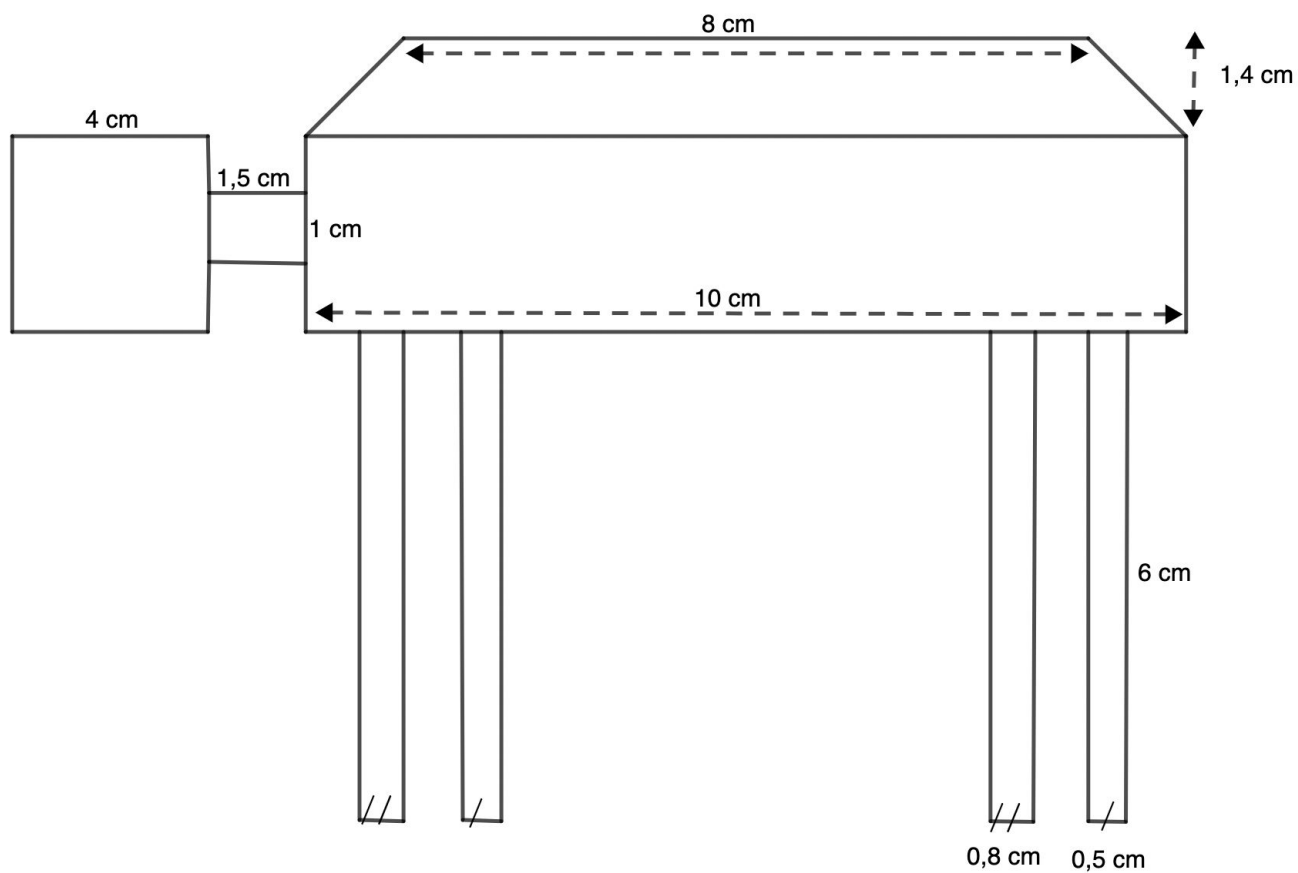


DREW HERE !

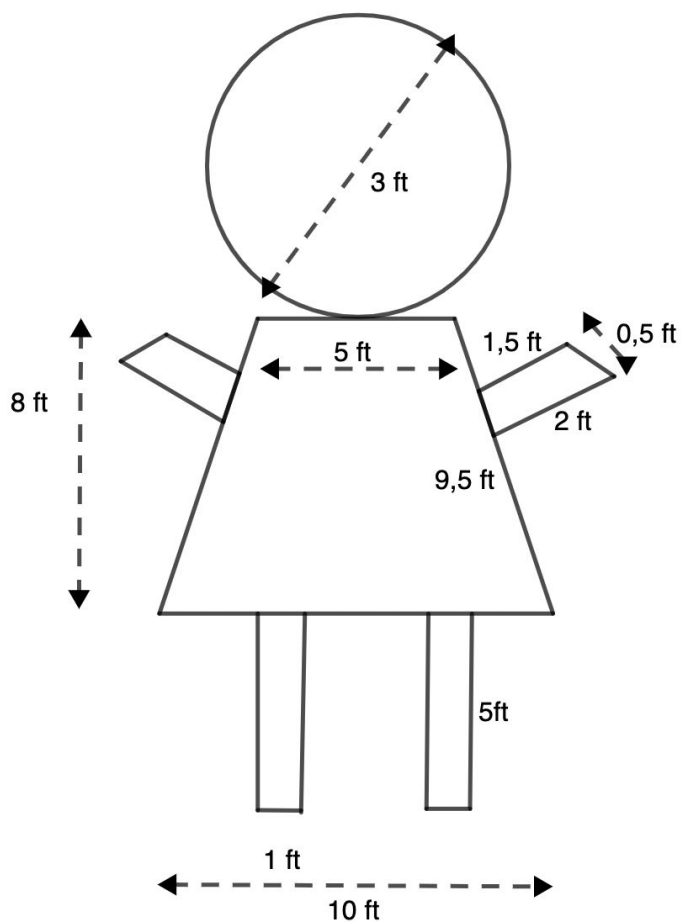
Calculate the area of these special figures.



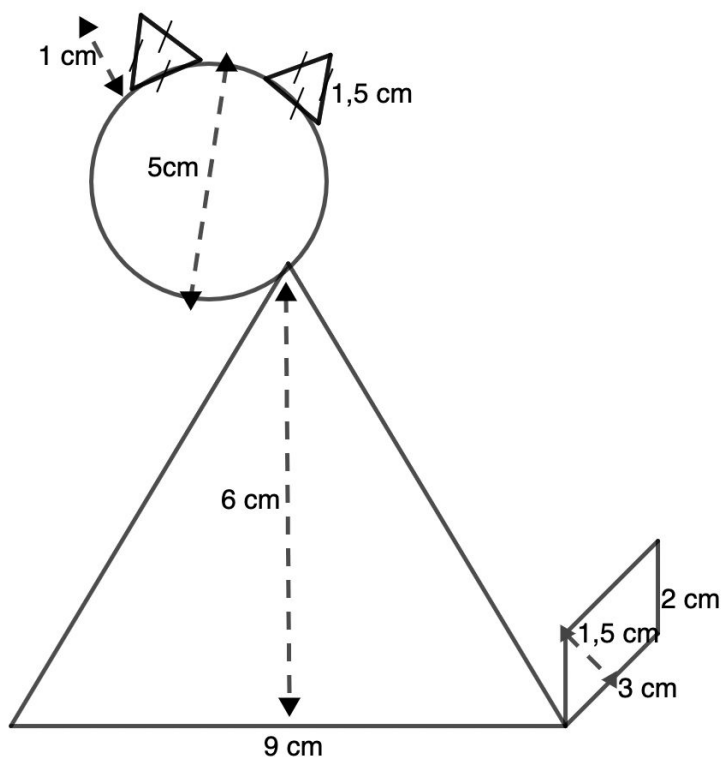
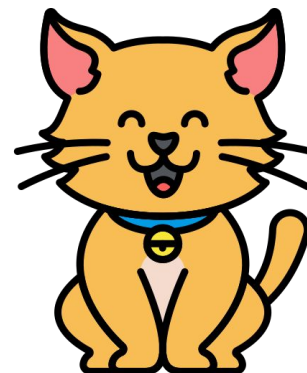
Exercise #2 :



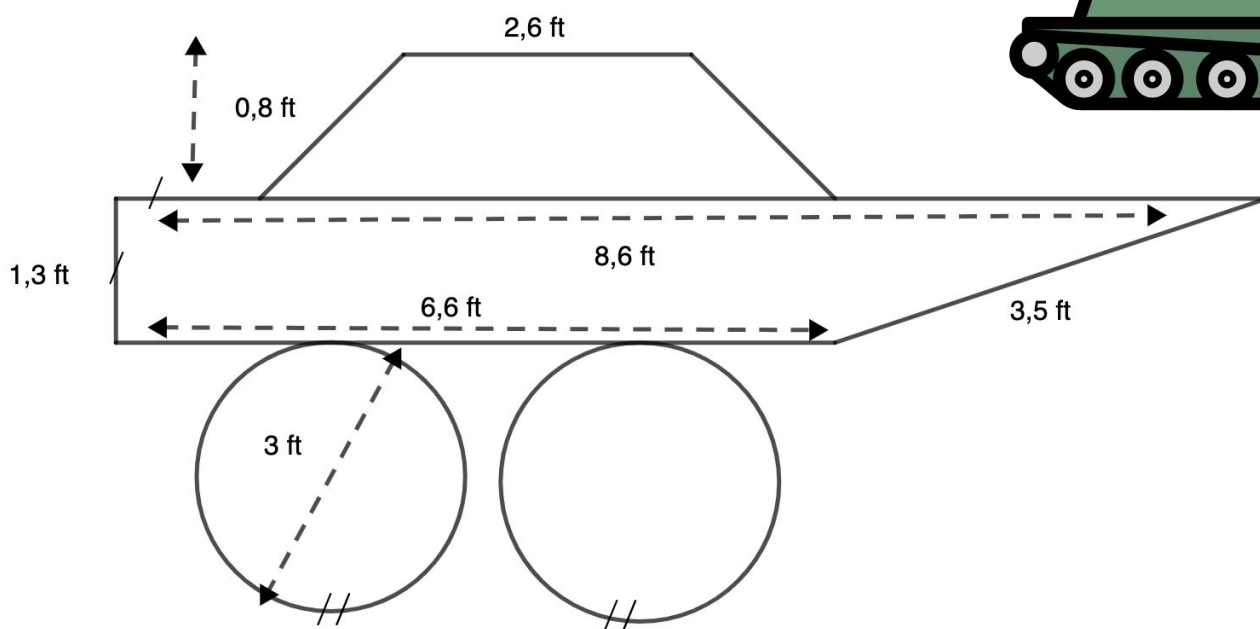
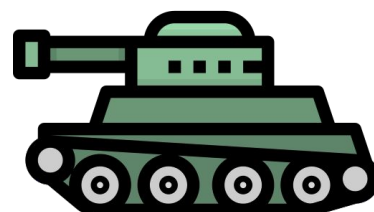
Exercise #3 :



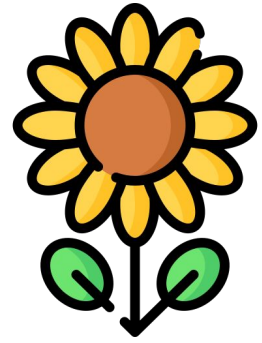
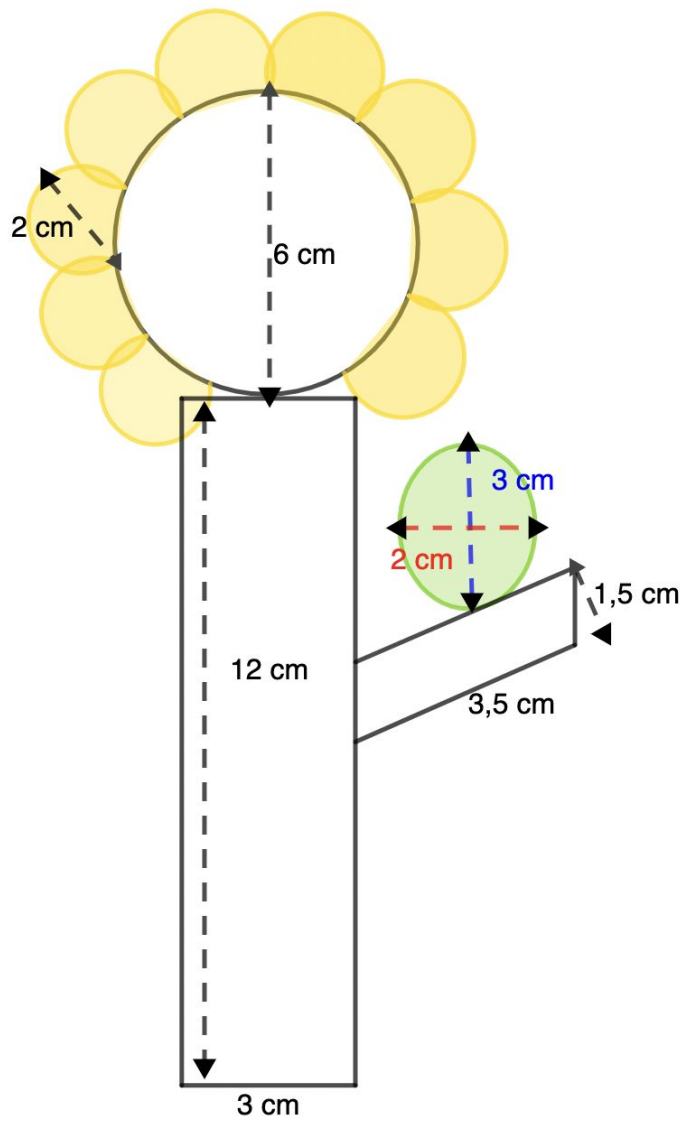
Exercise #4 :



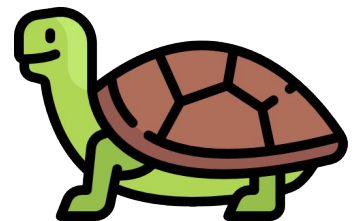
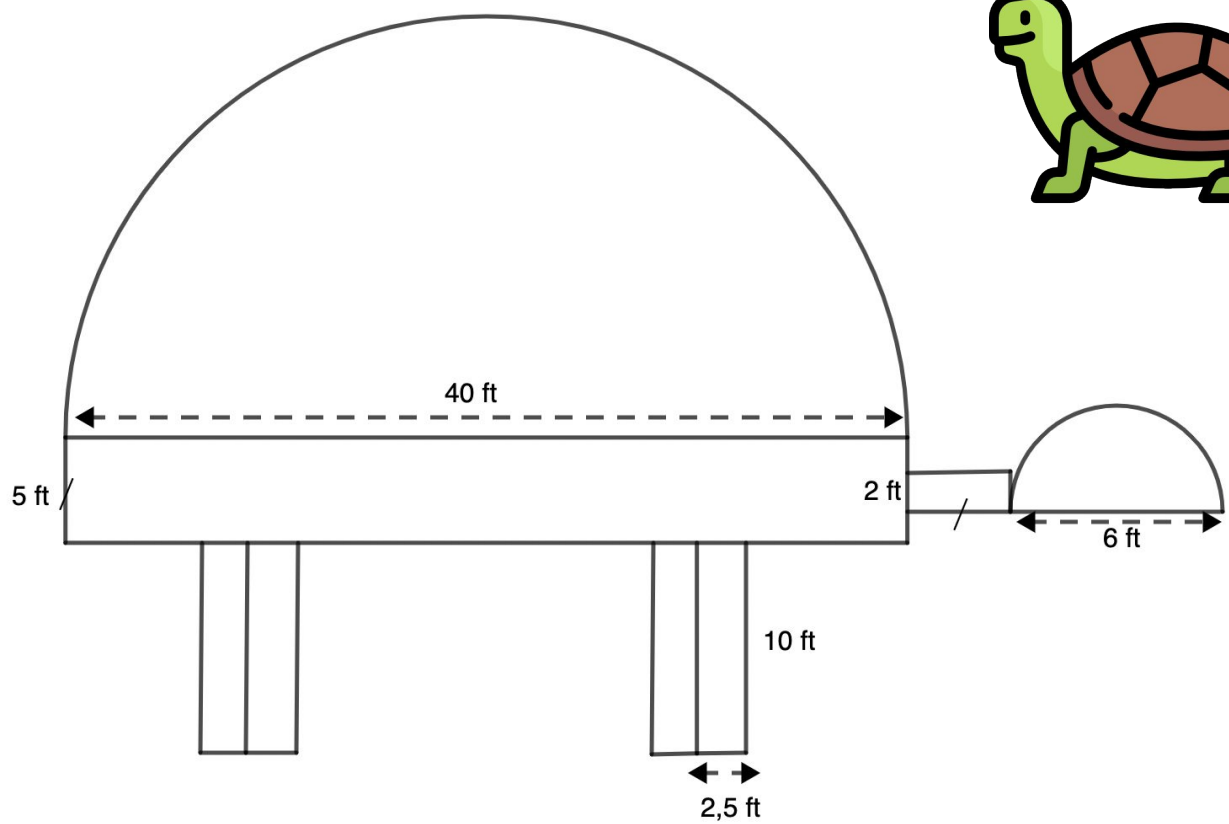
Exercise #5 :



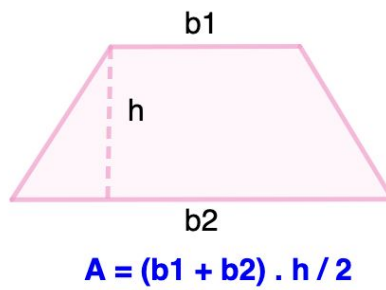
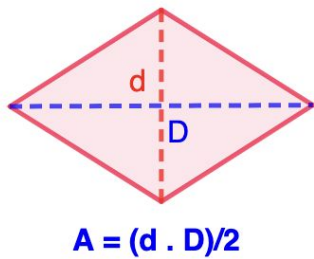
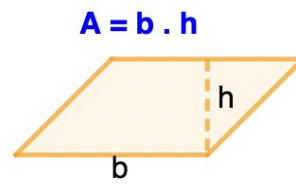
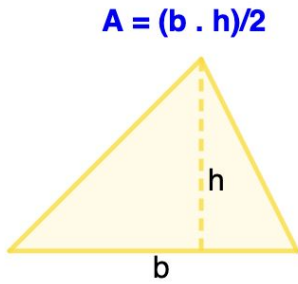
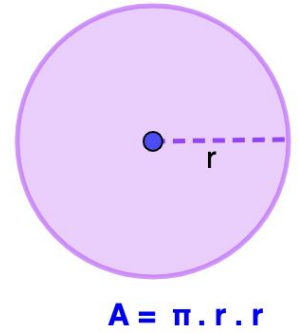
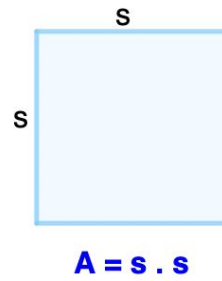
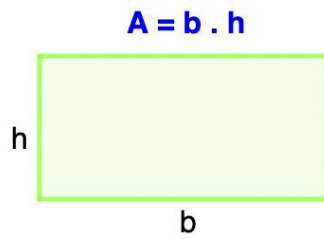
Exercise #6 :



Exercise #7 :



HELP !

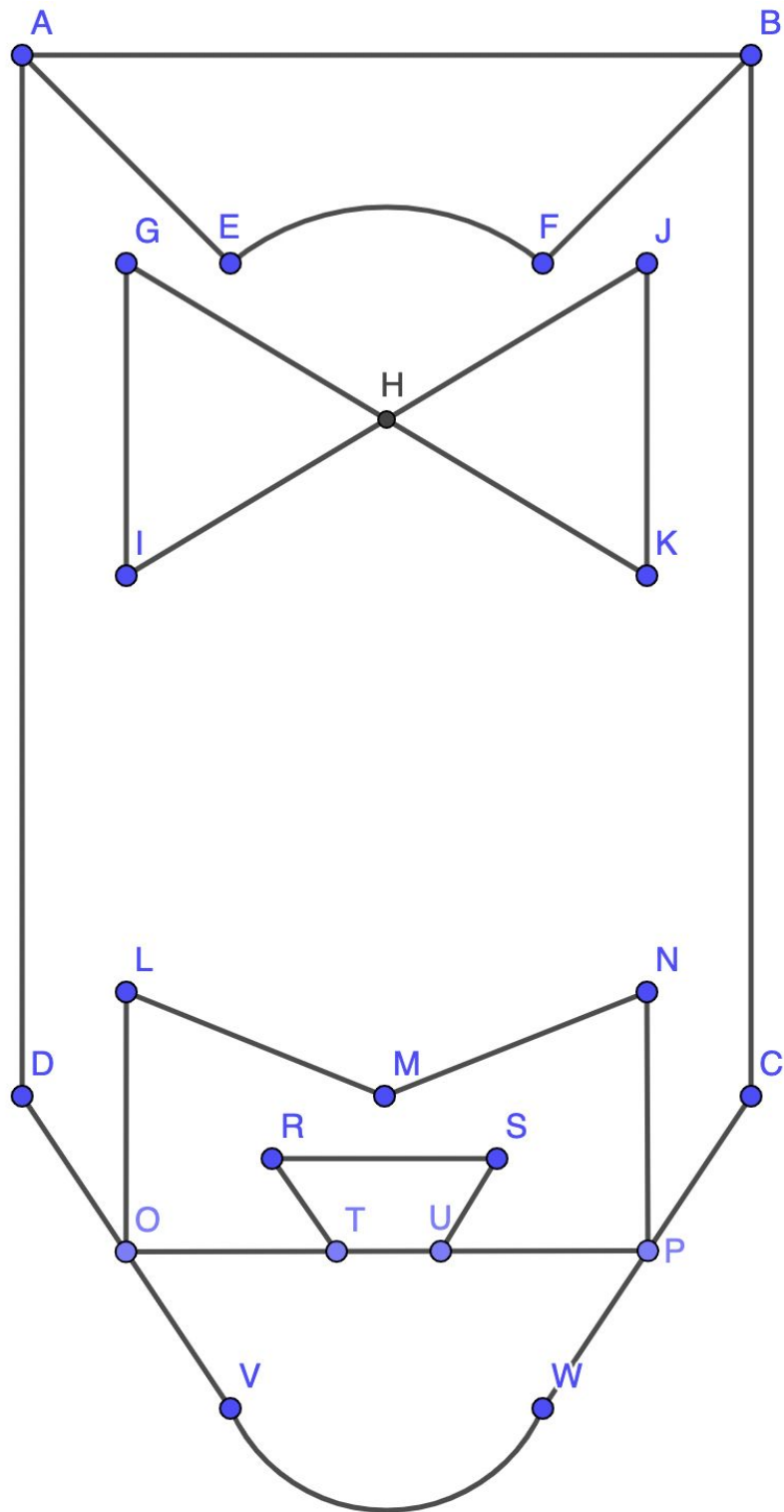


And for the oval ? Search on the internet



ANSWERS

Exercise #1



Who is Batman's only friend ? **Robin**

ANSWERS

Exercise #2	A = 85,7 cm
Exercise #3	A = 78,82 ft
Exercise #4	A = 52,63 cm
Exercise #5	A = 27,18 ft
Exercise #6	A = 102,49 cm
Exercise #7	A = 952,46 ft

