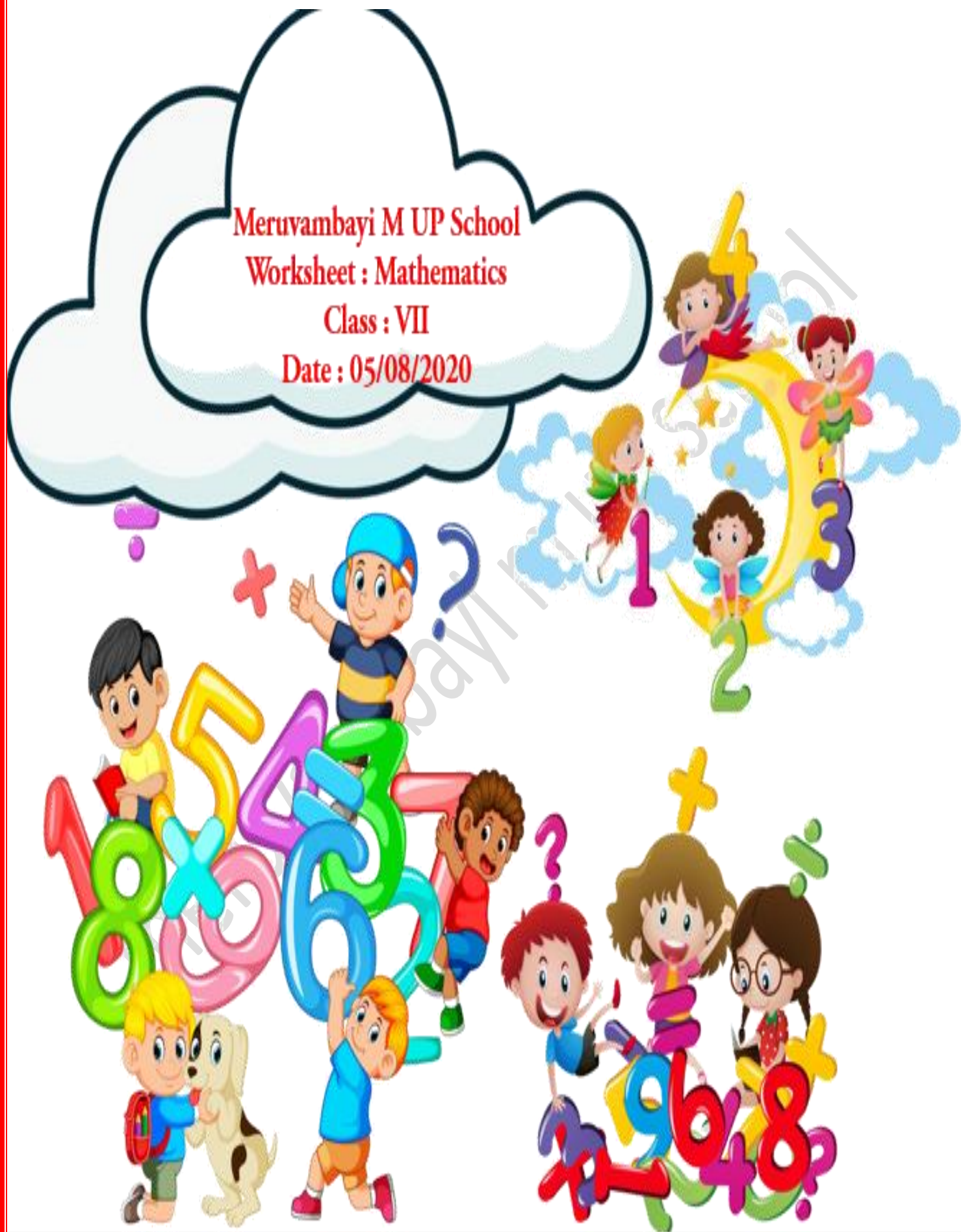


Meruvambayi M UP School
Worksheet : Mathematics
Class : VII
Date : 05/08/2020





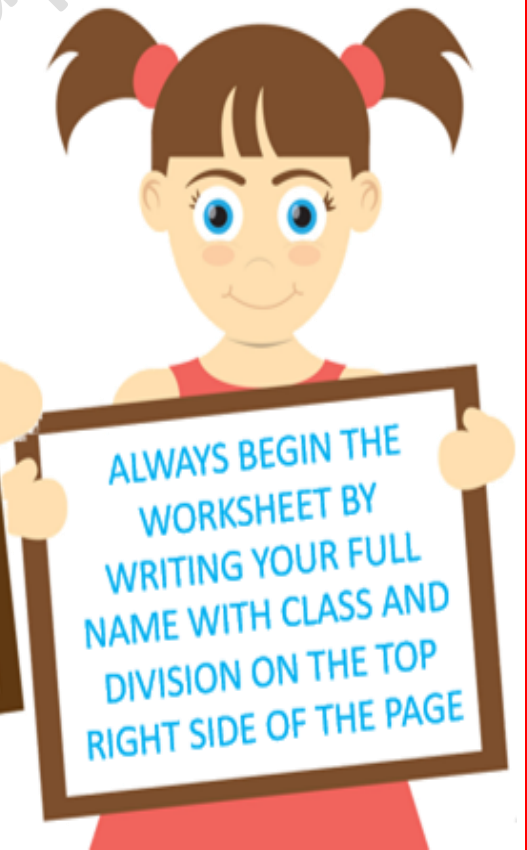
GOOD MORNING KIDS...



**WELCOME TO
THE WORLD OF
MATHEMATICS**



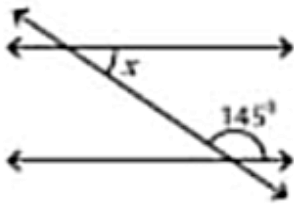
**KEEP A
SEPARATE
NOTEBOOK AND
PEN WITH YOU
FOR MATHS**



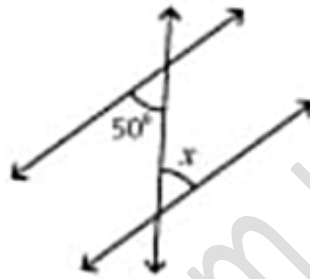
**ALWAYS BEGIN THE
WORKSHEET BY
WRITING YOUR FULL
NAME WITH CLASS AND
DIVISION ON THE TOP
RIGHT SIDE OF THE PAGE**

ACTIVITY 1

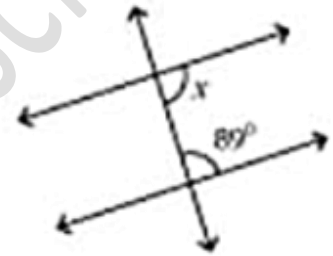
Find the value of x



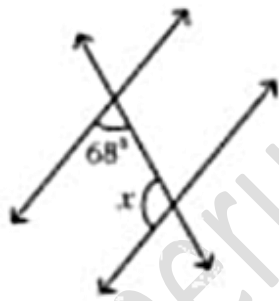
$x =$ _____



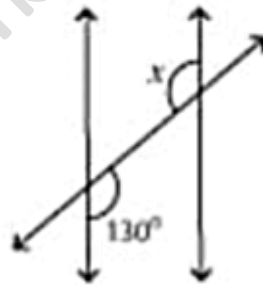
$x =$ _____



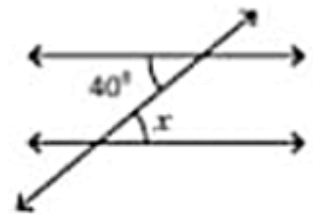
$x =$ _____



$x =$ _____



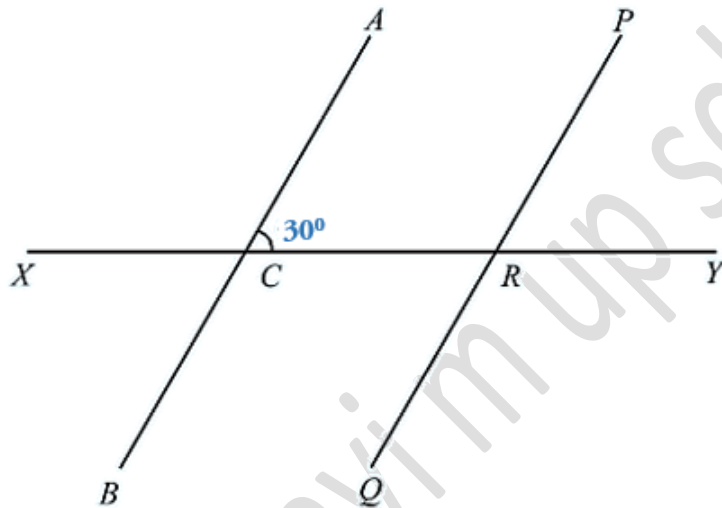
$x =$ _____



$x =$ _____

ACTIVITY 2

In the figure below, the lines AB and PQ are parallel and the line XY cuts them at C and R. Find all the angles and write down their names and measures.



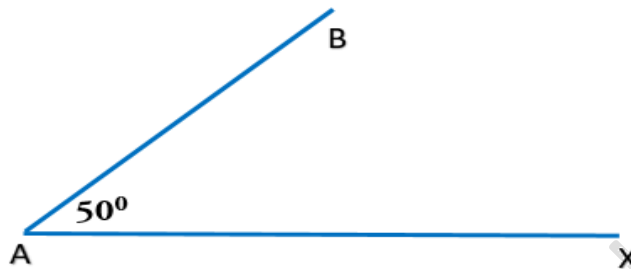
Sl No:	Name of the angle	Measurement
1	$\angle ACY$	30°
2		
3		
4		
5		
6		
7		
8		

PARALLEL LINES AND TRIANGLES

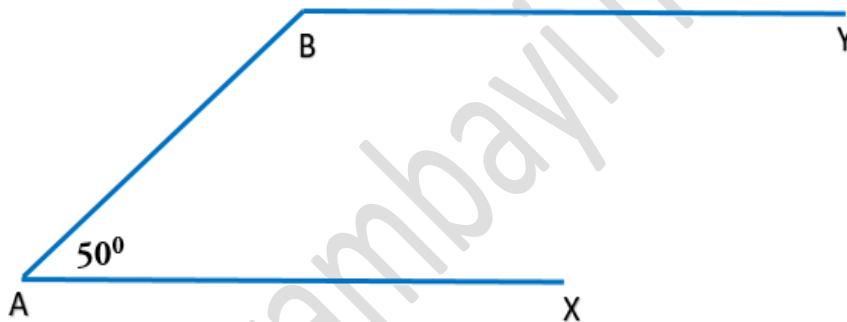
- Draw a line AX



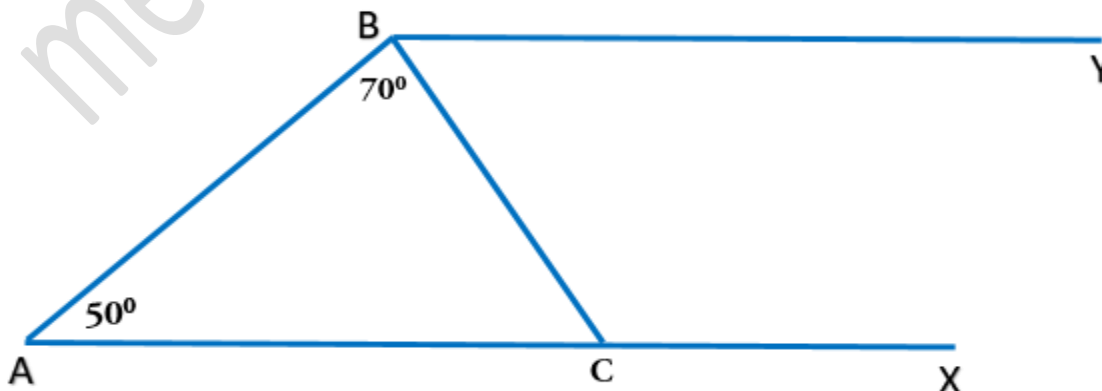
- Place the protractor on the point A and draw an angle $XAB = 50^\circ$ and mark point B



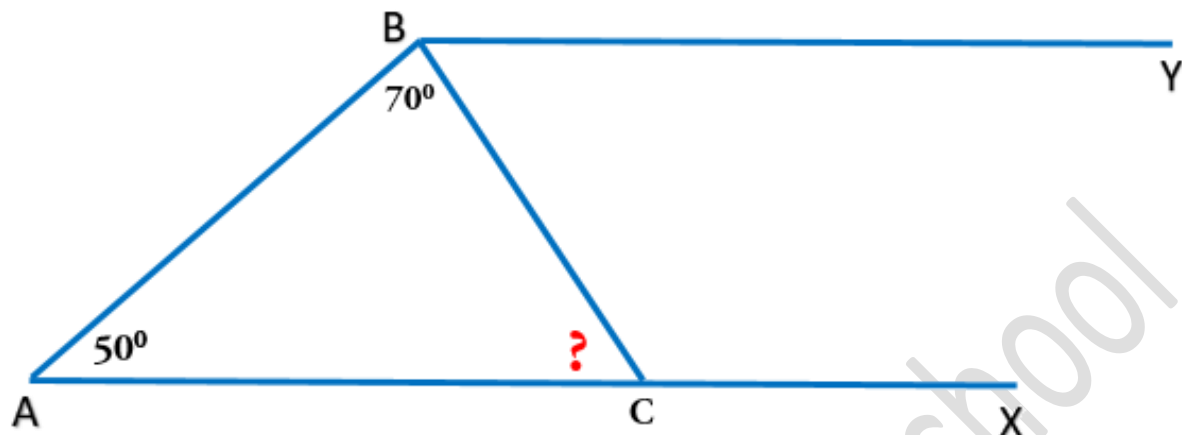
- A line starting from B is to be drawn, Parallel to AX



- Draw a slanted line from B to a point on the line AX mark this point C, angle $ABC = 70^\circ$



Calculate $\angle ACB$...



$\angle ACB = ?$

Line AX parallel to line BY

$\angle XAB = 50^\circ$ (given)

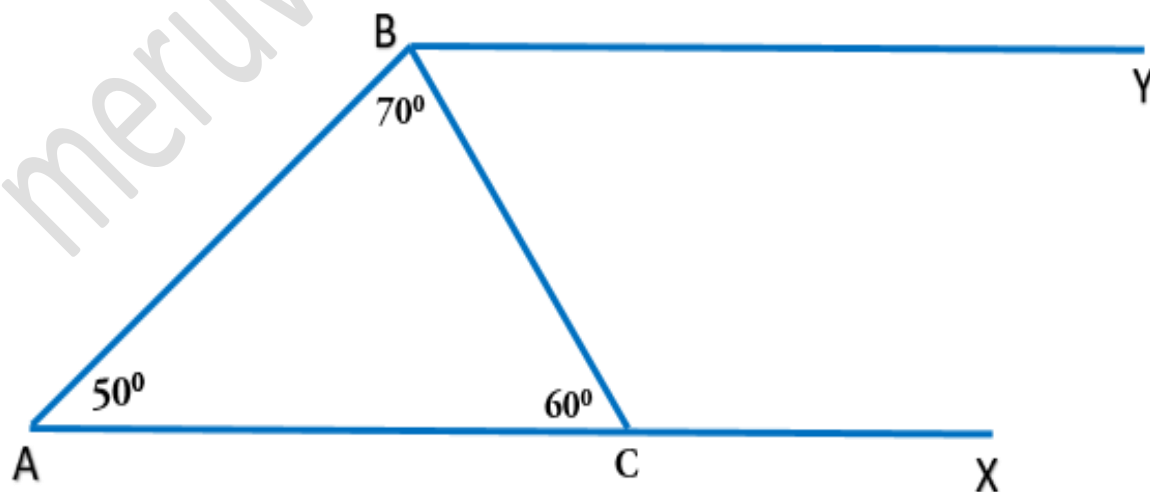
$\angle ABY = 180^\circ - 50^\circ$ (Co-interior angles are supplementary)
 $= 130^\circ$

$\angle ABC = 70^\circ$ (Given)

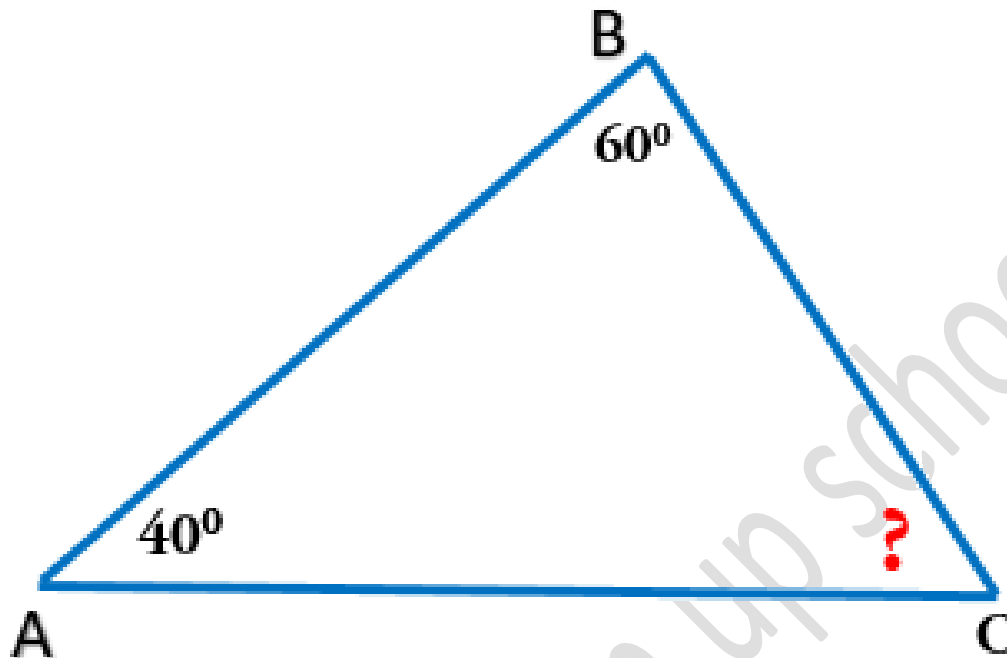
$\angle CBY = \angle ABY - \angle ABC$

$= 130^\circ - 70^\circ = 60^\circ$

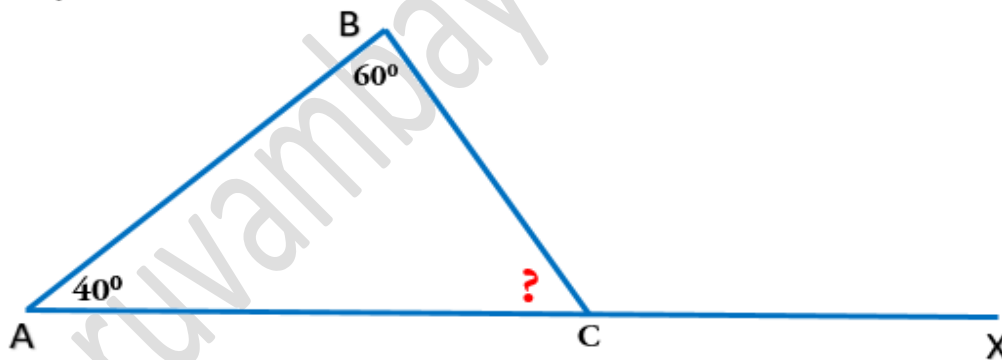
$\angle ACB = 60^\circ = \angle CBY$ (Alternate angle)



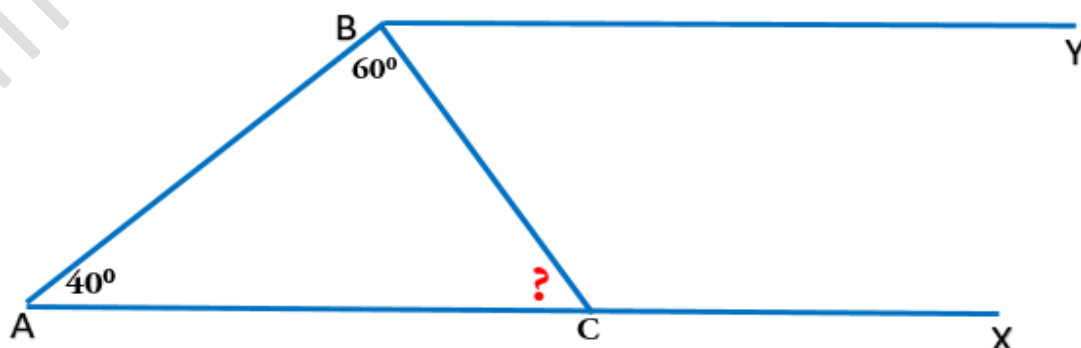
Like this calculate angle C for the following.



- First, extend the line AC to X



- Then Draw a line from B to Y parallel to AX



$$\angle CAB = 40^\circ \text{ (given)}$$

$$\angle ABC = 60^\circ \text{ (given)}$$

$$\angle ACB = ?$$

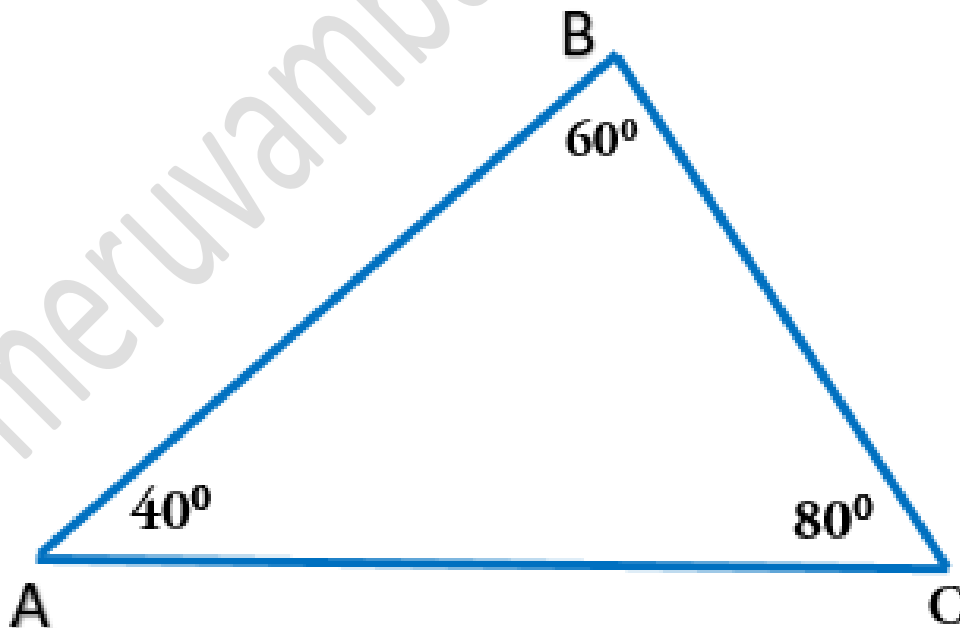
$$\begin{aligned} \angle ABY &= 180^\circ - 60^\circ \text{ (Co-interior angle)} \\ &= 120^\circ \end{aligned}$$

$$\angle CBY = 120^\circ - 40^\circ = 80^\circ$$

$$\angle ACB = \angle CBY = 80^\circ \text{ (Alternate angle)}$$

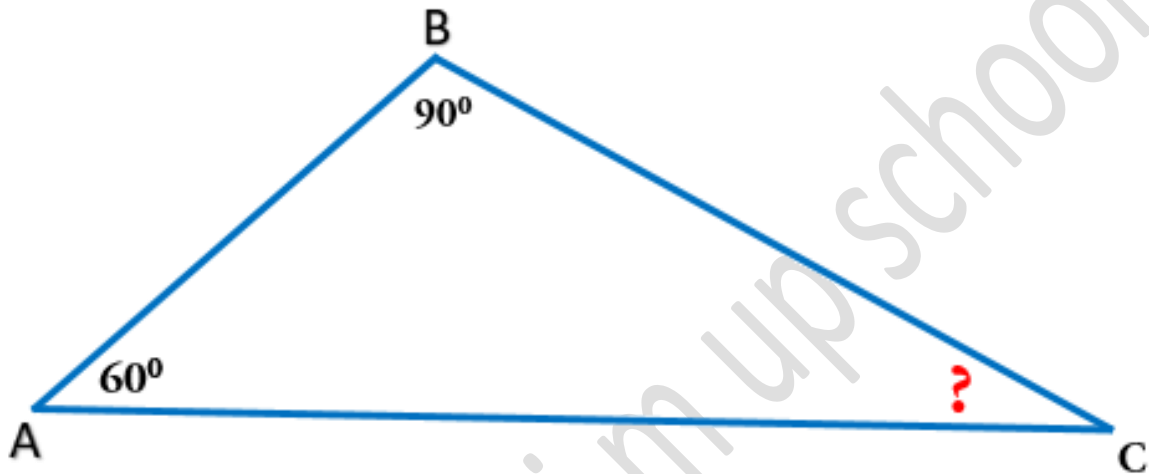
In triangle ABC

$$\angle A = 40^\circ, \angle B = 60^\circ, \angle C = 80^\circ$$



ACTIVITY 3

Find angle C



For online class click here

[https://www.youtube.com/watch](https://www.youtube.com/watch?v=7r5lMb8rtd0)

[?v=7r5lMb8rtd0](https://www.youtube.com/watch?v=7r5lMb8rtd0)

Enjoy the worksheet dears...

*Do all the activities in your math note
book...*

Send all the activities to your teacher.....

*All
the
Best*