

**Class 5**  
**Sub - Maths**  
**Unit-2 (Shapes and Angles)**

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**1. Mohini made this.**



Now you give the answers.

**(i) Is it a closed shape?**

**Solution:-**

Yes, it is a closed shape.

**(ii) Does it have 6 sides?**

**Solution:-**

Yes, it has 6 sides.

But it is not the same as the one made by Rohini.

**2. Mohini tried again.**



**This is what she made** .

**(i) Is it a closed shape with 6 sides?**

**Solution:-**

Yes, it is a closed shape with 6 sides.

**(ii) Is it the same as the one made by Rohini?**

**Solution:-**

No, it is not the same as the one made by Rohini.

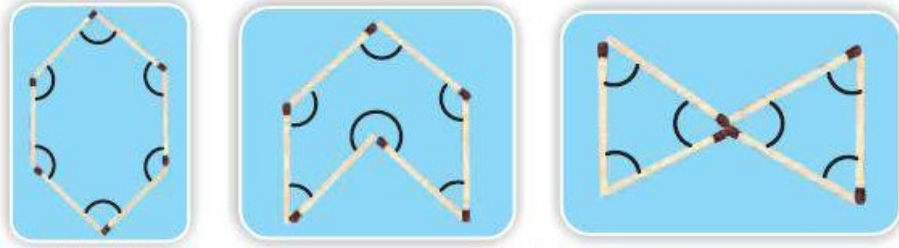
**(iii) Is there some way to say in what way these shapes are different?**

**Solution:-**

These shapes are different in angles.

**4. Look at the angles marked in these shapes. Can you see the difference?**

**Solution:-**



By seeing the figure, we can say that the each figure has different shape and different angels.

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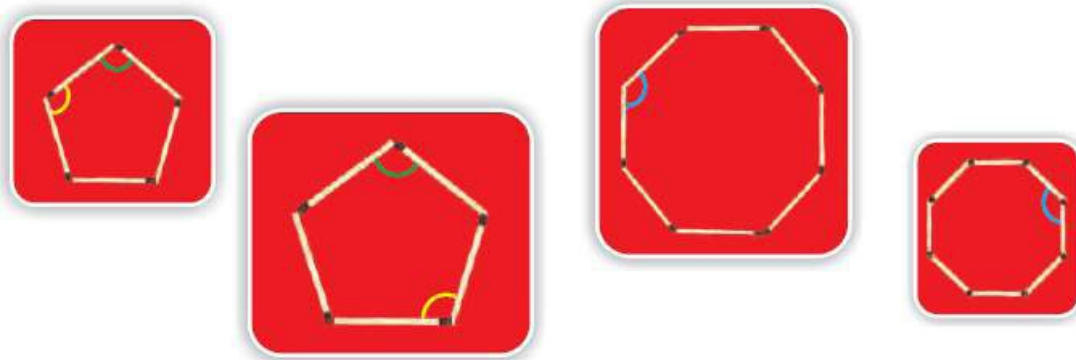
**1) Look at the shape and answer.**

**(i) The angle marked in colour is the biggest angle.**

**Solution:-**

The angle marked in black colour is the biggest angle.

2.



**(a) Are the angles marked with yellow equal?**

**Solution:-**

Yes, the angles marked with yellow are equal.

**(b) Are the angles marked with green equal?**

**Solution:-**




Yes, the angles marked with green are equal.

**(c) Are the angles marked with blue equal?**






**Solution:-**

Yes, the angles marked with blue are equal.

**4. Look at the angles in the pictures and fill the table.**

Angle	Right angle	More than a right angle	Less than a right angle
			✓
			
			
			
			

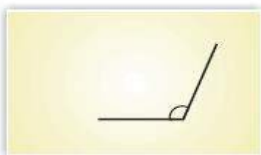
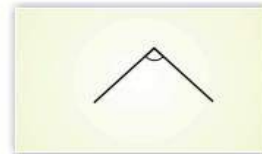
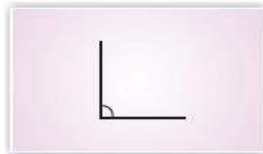
**Solution:-**

Angle	Right angle	More than a right angle	Less than a right angle
			✓
	✓		
	✓		
		✓	
		✓	

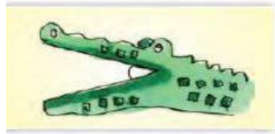
**6. Draw anything of your choice around the angle shown. Also write what kind of angle it is. The first one is done.**



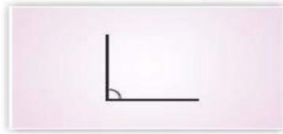
Less than a right angle



**Solution:-**



Less than a right angle



Right angle



Right angle



Obtuse angle



Acute angle



Acute angle

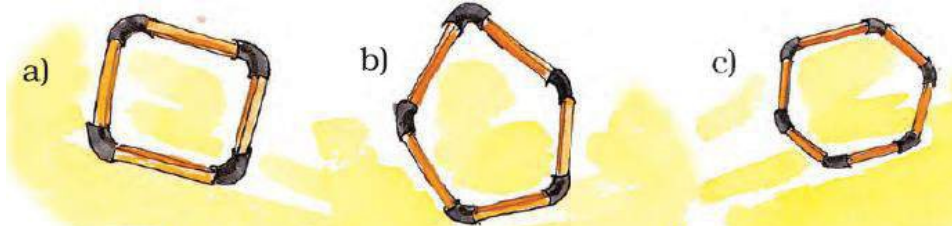
**7. Write 3 names using straight lines and count the angles.**

Name	Number of right angles	Number of angles more than a right angle	Number of angles less than a right angle

**Solution:-**

Name	Number of right angles	Number of angles more than a right angle	Number of angles less than a right angle
MEERA	8	3	6
REENA	8	2	3
BALLAN	2	4	4

**9. (i) Find out how many angles are there in each of these shapes. Mark them.**



**Solution:-**



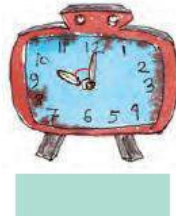
10. There are many times in a day when the hands of a clock make a right angle. Now you draw some more.



Solution:-



11. Write what kind of angle is made by the hands at these times. Also write the time.



Solution:-



7 : 25  
Acute angle



8 : 15  
Obtuse angle



9 : 10  
Obtuse angle

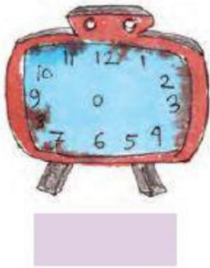


9 : 25  
Obtuse angle



10 : 00  
Acute angle

12. Draw the hands of the clock when they make an angle which is less than a right angle. Also write the time.



Solution:-



11 : 45



1 : 16



8 : 50

13. Can you guess how many degrees is the angle which is?

(i)  $\frac{1}{2}$  of a right angle.

Solution:-

We know that, the right angle is equal to 90.

Then,  $\frac{1}{2}$  of a right angle =  $\frac{1}{2} \times 90^\circ$

$$= 1 \times 45$$

$$= 45^\circ$$

**(ii)  $\frac{1}{3}$  of a right angle .**

**Solution:-**

We know that, the right angle is equal to  $90^\circ$ .

Then,  $\frac{1}{3}$  of a right angle =  $\frac{1}{3} \times 90^\circ$

$$= 1 \times 30$$

$$= 30^\circ$$

**(iii) 2 times of a right angle .**

**Solution:-**

We know that, the right angle is equal to  $90^\circ$ .

Then, 2 times of a right angle =  $2 \times 90^\circ$

$$= 180^\circ$$