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1. Mohini made this. Now you give the answers.
(i) Is it a closed shape?
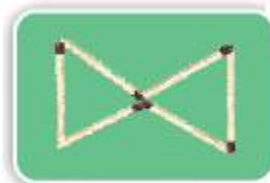**Solution:-**
Yes, it is a closed shape.

(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.

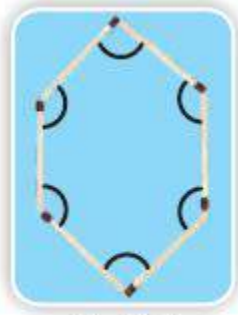**(ii) Is it the same as the one made by Rohini?**
Solution:-
No, it is not the same as the one made by Rohini.

(iii) Is there some way to say in what way these shapes are different?
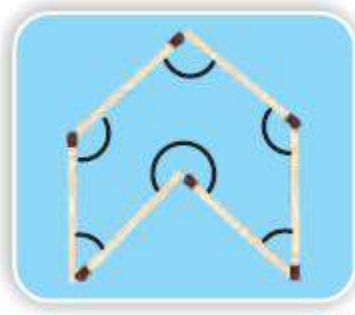**Solution:-**
These shapes are different in angles.

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

Rohini   Mohini

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 <u>black</u> colour is the biggest angle.

2.

(a) Are the angles marked with yellow equal?

Solution:-

Yes, the angles marked with yellow are equal.

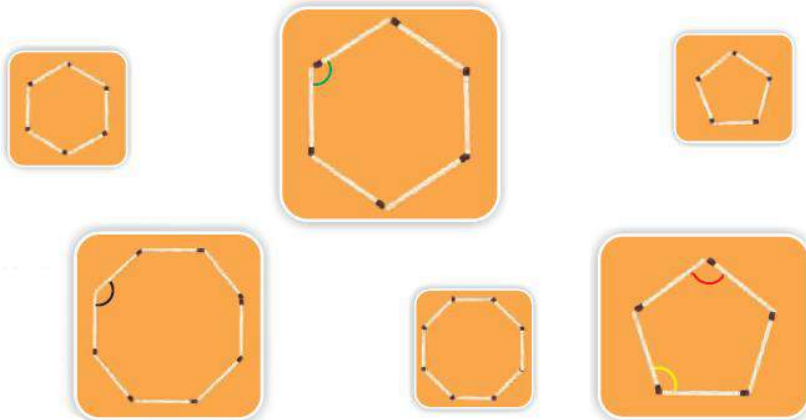**(b) Are the angles marked with green equal?**

Solution:-

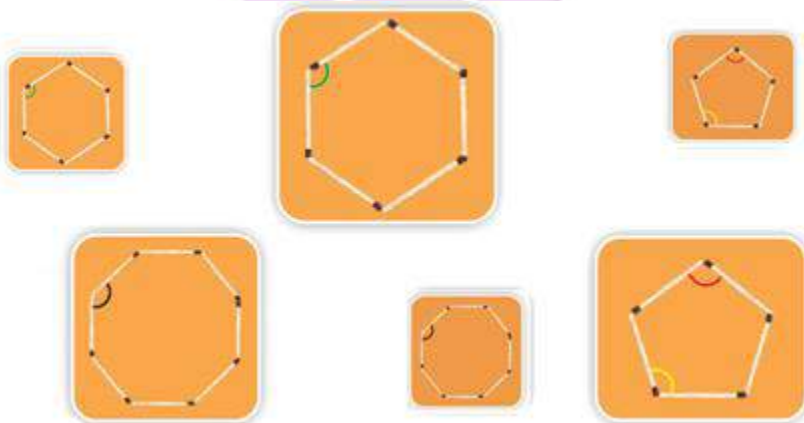Yes, the angles marked with green are equal.

(c) Are the angles marked with blue equal?

Solution:-

Yes, the angles marked with blue are equal.

3. Four different angles are marked in four colours. Can you find other angles which are the same as the one marked in red? Mark them in red do this for other colours.
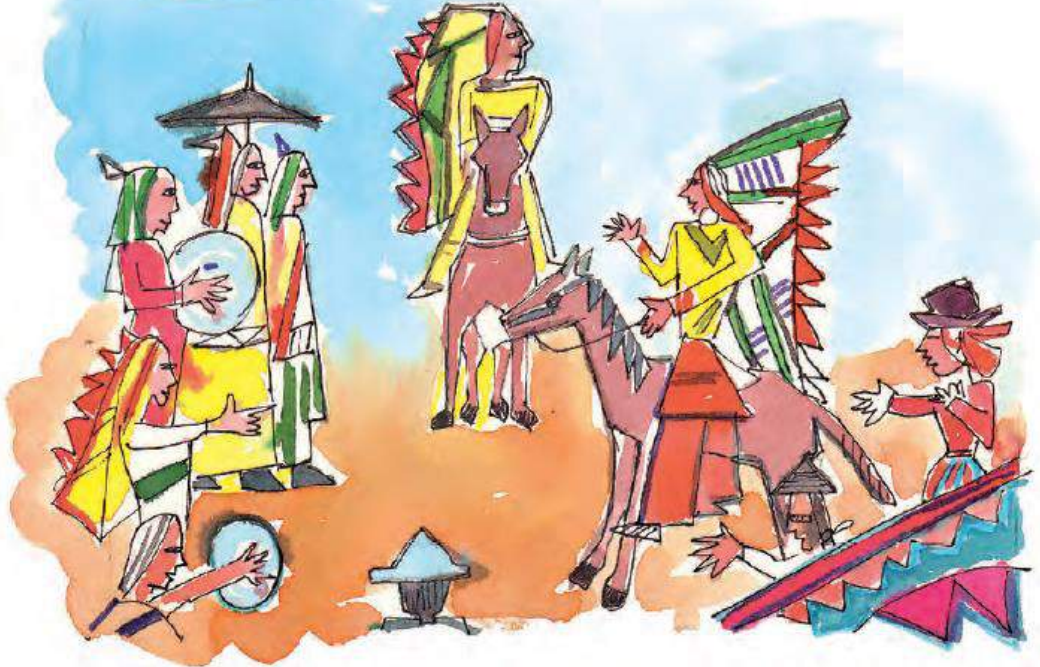

Solution:-

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:-

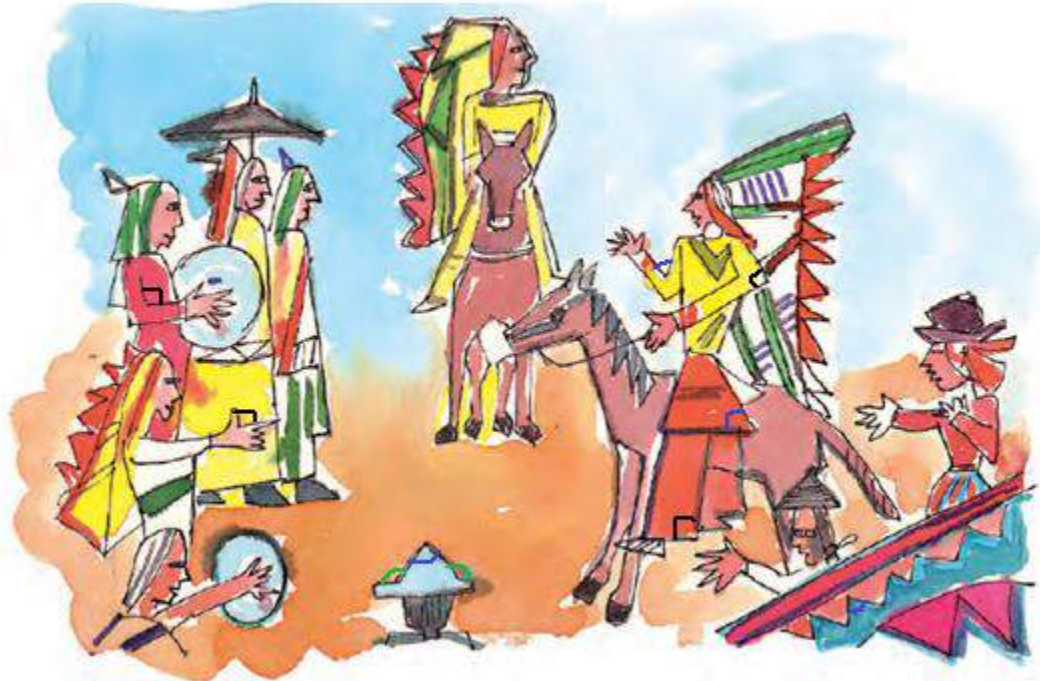| Angle	Right angle	More than a right angle	Less than a right angle
			✓
	✓		
	✓		
		✓	
		✓	

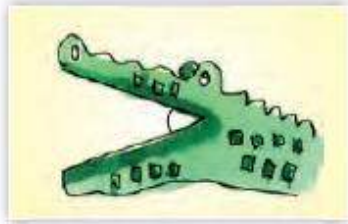**5. Sukhman made this picture with so many angles.**

Use colour pencils to mark.
(i) right angles with black colour.
(ii) angles which are more than a right angle with green.
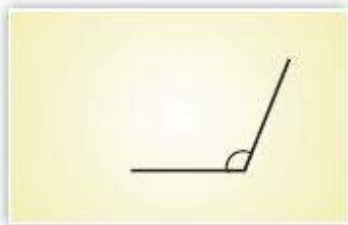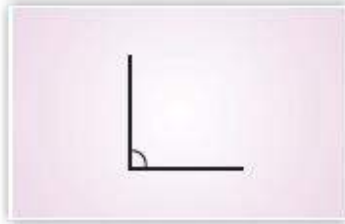**(iii) angles which are less than a right angle with blue.**
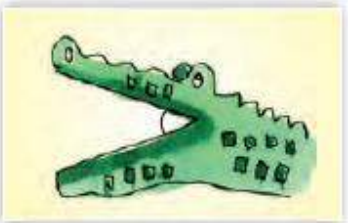**Solution:-**

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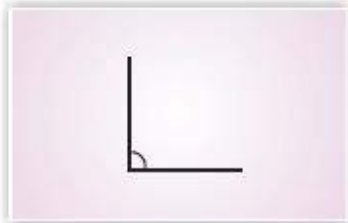

Less than a right angle

Solution:-

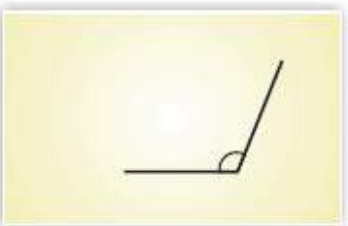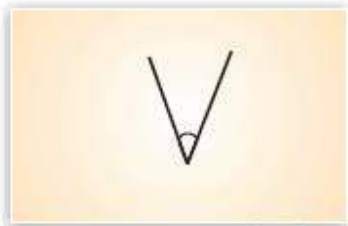

Less than a right angle

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

8.

These are two slides in a park.
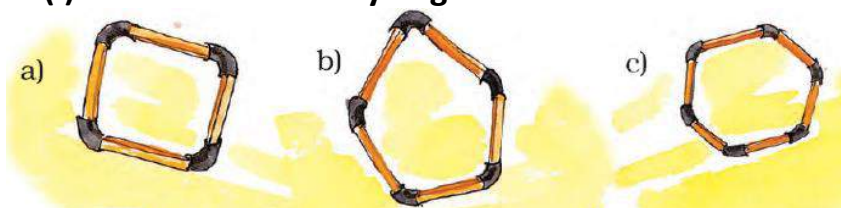**(i) Which slide has a larger angle?**
Solution:-
The slide which comes in left of the boy has larger angle.

(ii) Which slide do you think is safer for the little boy? Why?
Solution:-
The slide which comes in right is safer. Because, slide on the left of the boy is steeper than the other.

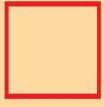**9. (i) Find out how many angles are there in each of these shapes. Mark them.**

Solution:-

(ii) Find out and write your results in the table given.

Shape	Change in angle Yes/no
(hexagon)	
(pentagon)	
(square)	
(triangle)	

Solution:-

Shape	Change in angle Yes/no
(hexagon)	Yes
(pentagon)	Yes
(square)	Yes
(triangle)	No

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) ½ of a right angle _____.
Solution:-
We know that, the right angle is equal to 90⁰.
Then, ½ of a right angle = ½ × 90⁰

$$= 1 × 45$$
$$= 45°$$

(ii) 1/3 of a right angle _____.
Solution:-
We know that, the right angle is equal to 90⁰.
Then, 1/3 of a right angle = 1/3 × 90⁰

$$= 1 × 30$$
$$= 30°$$

(iii) 2 times of a right angle _____.
Solution:-
We know that, the right angle is equal to 90⁰.
Then, 2 times of a right angle = 2 × 90⁰

$$= 180°$$