

Chapter 2: Shapes and Angles

NCERT · Class 5 · Maths

Questions

Question 1

Mohini made this.

Now you give the answers.

(i) Is it a closed shape?

Solution

Solution:-

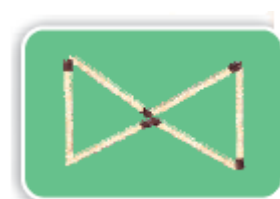
Yes, it is a closed shape.

(ii) Does it have 6 sides?

Solution:-

Yes, it has 6 sides.

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



Question 2

Mohini tried again.

This is what she made.

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

Solution

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.

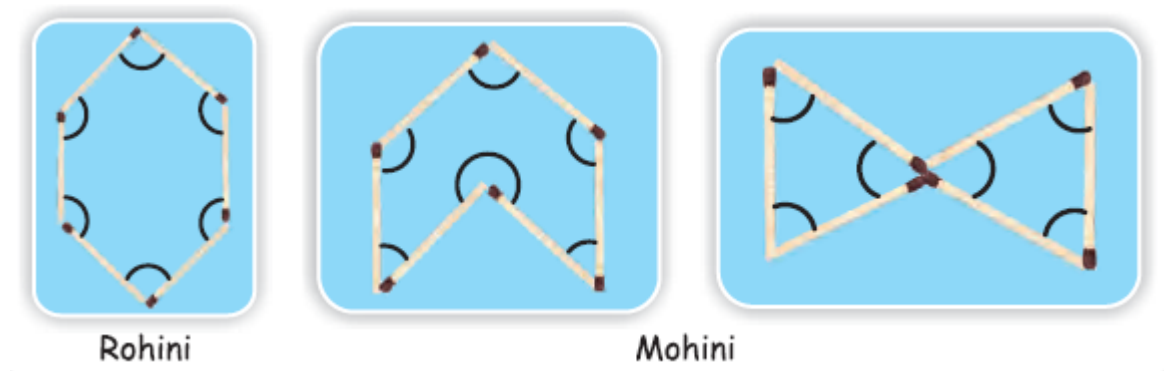
(iii) Is there some way to say in what way these shapes are different?

Solution:-

These shapes are different in angles.

Question 4

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



Solution

Solution:-

By seeing the figure, we can say that each figure has different shapes and different angles.

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Question 1

Look at the shape and answer.



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

Solution

Solution:-

The angle marked in the black colour is the biggest angle.

Question 2



(a) Are the angles marked with yellow equal?

Solution

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.

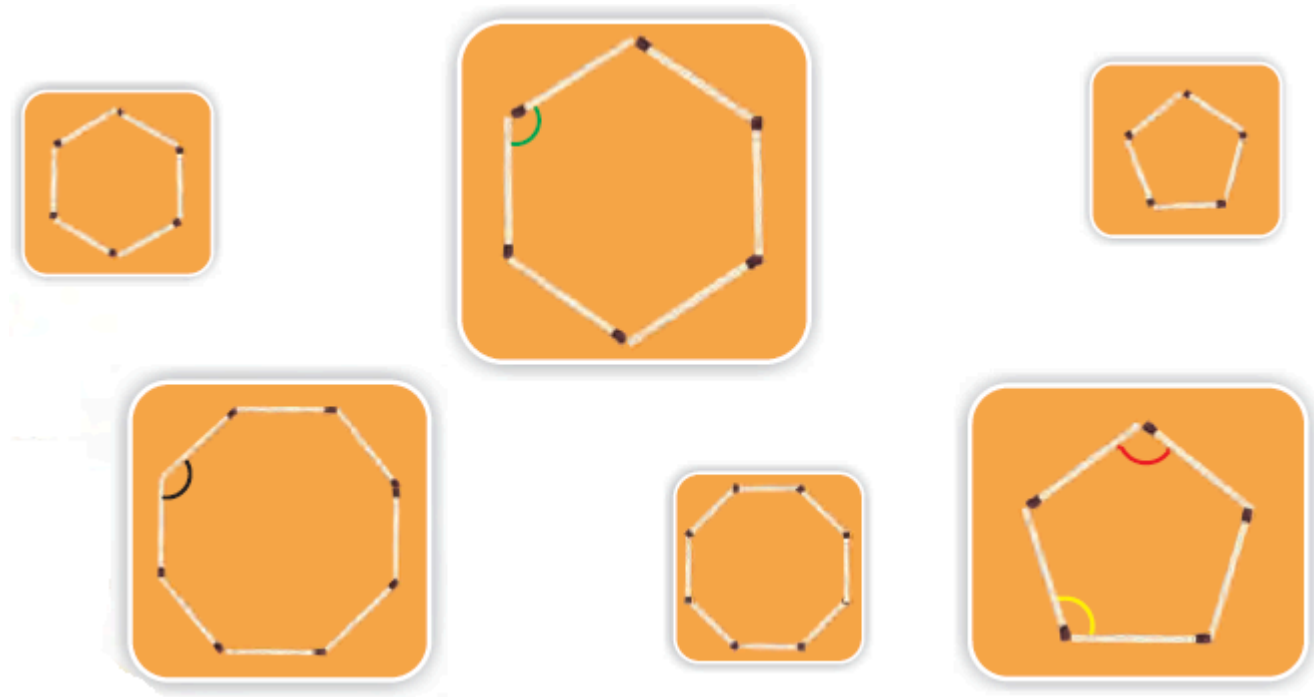
(c) Are the angles marked with blue equal?

Solution:-

Yes, the angles marked with blue are equal.

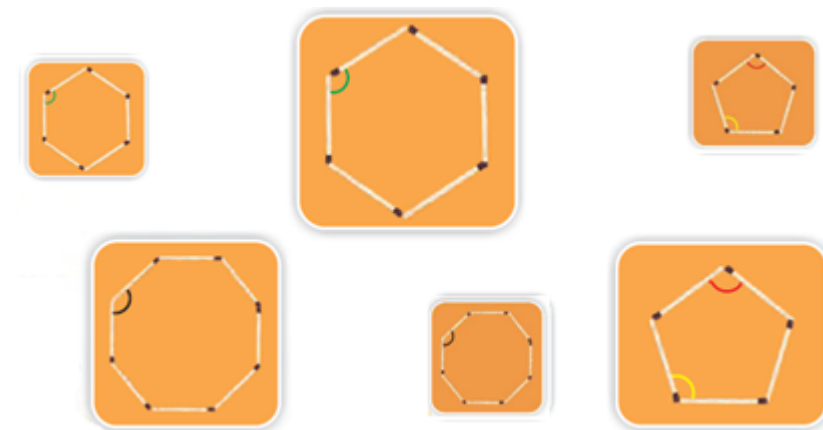
Question 3

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

Solution:-



Question 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

Solution:-

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

Question 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

Solution:-



Question 6

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



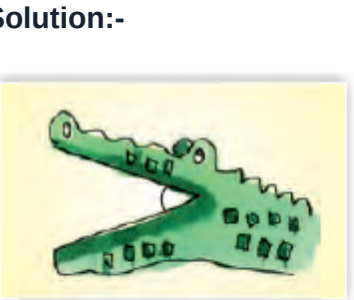
Less than a right angle



Right angle



Right angle



Obtuse angle



Acute angle



Acute angle

Solution

Solution:-

Question 7

Write 3 names using straight lines and count the angles.

Nam e	Number of right angles	Number of angles more than a right angle	Number of angles less than a right angle

Solution**Solution:-**

Name	Number of right angles	Number of angles more than a right angle	Number of angles less than a right angle
MEER A	8	3	6
REEN A	8	2	3
BALLA N	2	4	4

Question 8

These are two slides in a park.

(i) Which slide has a larger angle?

Solution**Solution:-**

The slide on the left of the boy has a larger angle.

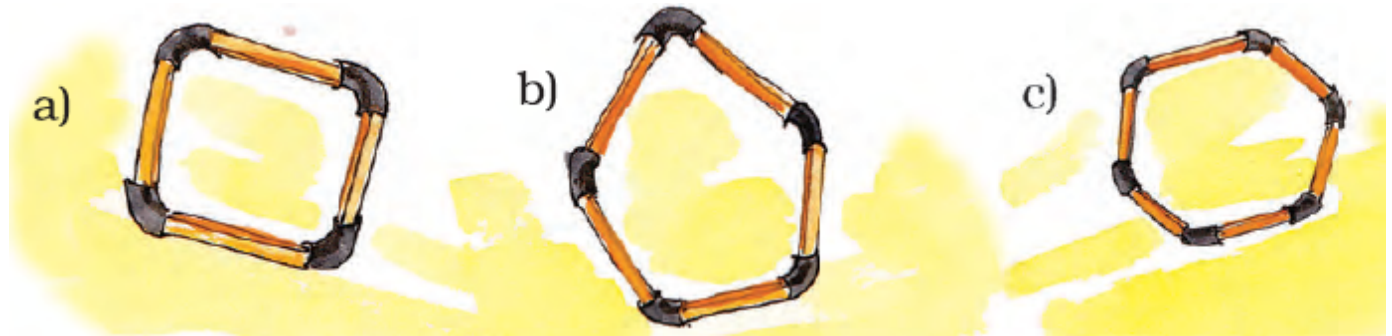
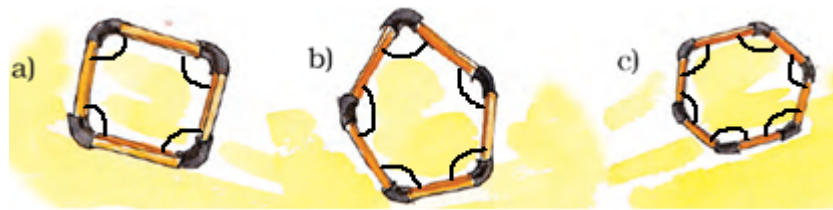
(ii) Which slide do you think is safer for the little boy? Why?

Solution:-

The slide on the right is safer. Because the slide on the left of the boy is steeper than the other.

Question 9

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

**Solution****Solution:-**

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

Shape	Change in angle Yes/no
	
	
	
	

Solution:-

Shape	Change in angle Yes/no
	Yes
	Yes
	Yes
	No

Question 10

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



Solution

Solution:-



Question 11

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



Solution

Solution:-

**7 : 25**

Acute angle

**8 : 15**

Obtuse angle

**9 : 10**

Obtuse angle

**9 : 25**

Obtuse angle

**10 : 00**

Acute angle

Question 12

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

**Solution****Solution:-**



11 : 45



1 : 16



8 : 50

Question 13

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

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

Solution

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° .

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° .

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

= 180°

On BYJU'S, the chapter, Shapes and Angles, is explained in an interactive way with interesting pictures, 3D models, images and videos so that the students don't lose interest and get distracted. Assignments and worksheets are given for practice. Below is a sample of NCERT Class 5 maths worksheets for Chapter 2:

- What is the angle made between the hands of the clock when it is 9:10 am?
- What is the angle between the arm and hand?
- What is the angle between the thigh and abdomen?
- How to make equal angles?

Check below the solutions given for chapter 2 of 5th class Maths subject.

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