SNBP International & Sr. Secondary School, Chikhali, Pune.
Affiliation No. 1130703
Academic session 2024-25
Lno-12 Notes -(Term-1)

CLASS :IV SUBJECT: Maths
Prepared by -Rajni Y. L –12 Angles and Turns

Pre - activity -Let's Begin (Page 176) done in text book.

T.B – Page no-178

Pictorial Stage

1 Identify the type of angles formed.

a 
Obtuse

b 
Right

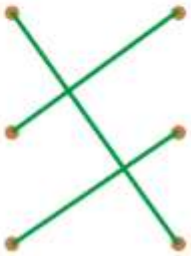
c 
Acute

2 Match the angles formed by the spider web to its correct type.

a 

b 

c 



i. Right angle

ii. Acute angle

iii. Obtuse angle

Abstract Stage

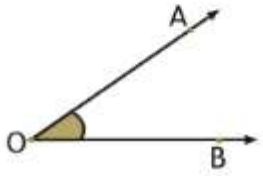
1 Write the name of the angles described below.

a It is less than 90° Acute

b It is more than 100° Obtuse

c It is 2 more than 45 Right

2 Write the names of the vertex, arms, and angle formed in the given figure.



Vertex O Angle ∠AOB

Arms OA, OB

T.B.- Page no- 180

Concrete Stage

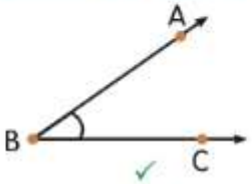
1. Keep your class door open in different positions and estimate the angles formed.

2. Open a book in different positions such that every time different angles are formed. Use a protractor to measure all the angles formed.

Pictorial Stage

1. Jai drew 3 different angles. Which of the angles measure 35°?

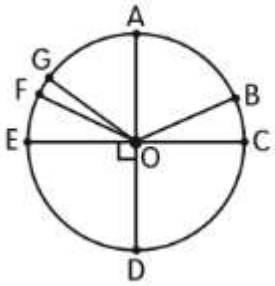
a 

b 

c 

2. Look at the figure and answer the following.

a Name an acute, obtuse, and a right angle.



Acute angle ____BC____

Obtuse angle ____FC____

Right angle ____AC____

b Are ∠EOD and ∠COD equal? Explain.

Abstract Stage

1. Use a protractor to draw the following angles.

a 45° b 130° c 90° d 150°

Answer: Do it yourself.

2. Measure each angle and write whether it's an acute, obtuse, or right angle.

a 

Obtuse

b 

Acute

c 

Right

d 

Acute

T.B.- Page no- 183

Pictorial Stage

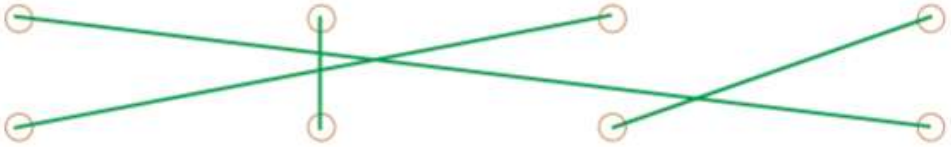
1 Match the clocks to the angles formed by their hands.

a  (4 equal parts)

b  (6 equal parts)

c  (2 equal parts)

d  (3 equal parts)



i. 180° ii. 60° iii. 120° iv. 90°

2 Work out the measure of the marked angle. 144°

Abstract Stage

1 A circle-shaped dosa is divided into a few equal parts. Each part has an angle of 120°. Find the number of parts the dosa was divided into.

Answer: 3

2 A circle is divided into 18 equal parts. What is the angle formed by each part? What is the measure of angle formed by 5 such parts? Explain.

Answer: 20°; 72°

T.B.- Page no- 184

Blooming Questions

1 Sort the images into the table.

a 

b 

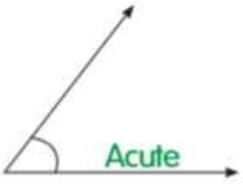
c 

d 

Lines that form angles	Lines that don't form angles
b	a
d	c

2 Name the type of angles.

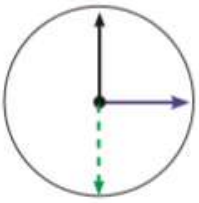
a 

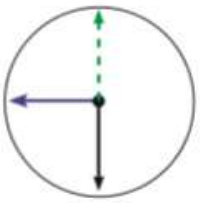
b 

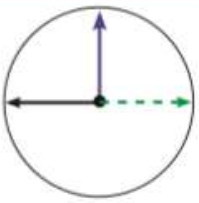
c 

3 Draw the new position of the blue arrow after a quarter turn clockwise for each of the following.

Hintometer: Clockwise means moving in the same direction as the hands of a clock.

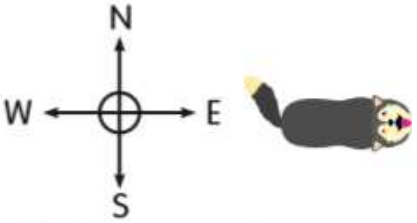
a 

b 

c 

T.B.- Page no- 185

4 Sarah and Arjun are discussing the type of turn the dog should make to end up facing east.

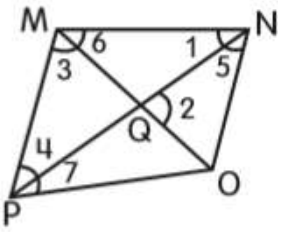


Sarah says the dog has made a three quarter turn anti-clockwise from the south.

Arjun says the dog has made a quarter turn clockwise from the north.

Who is correct? Explain your reasoning. Answer: Arjun's answer is correct.

5 Observe the figure and answer the following questions.



a Name the angle marked as 1 in two different ways.
∠MNQ or ∠QNM

b Name the vertex and arms of the angles marked as 2.
vertex = Q arms = QN, QO

c Name the angle marked as 3 in two different ways.
∠PMQ, ∠QMP

d Name the angle with arms NP and NM.
∠1

6 Use the given clocks to depict a time such that the angle formed by its hands is as stated below.

a 
Acute angle

b 
Right angle

c 
Obtuse angle

Mental Maths

Use the protractor to write the measure of each angle.

a ∠CAB = 12°

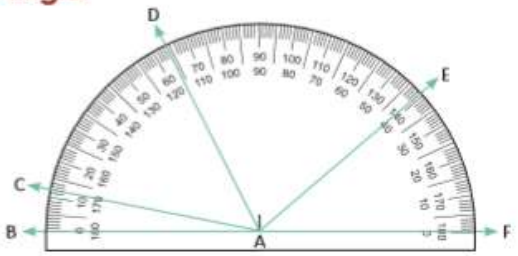
b ∠DAB = 69°

c ∠EAB = 139°

d ∠CAF = 168°

e ∠DAF = 111°

f ∠EAF 41°



Post Activity- Draw the following angles using protractor in your notebook.

1.Angle of 120˚
2.Angle of 60˚
3.Angle of 150˚
4. Angle of 145˚

Subject Teacher H.O.D. Co-Ordinator Principal