

Mathematics

Class : 6

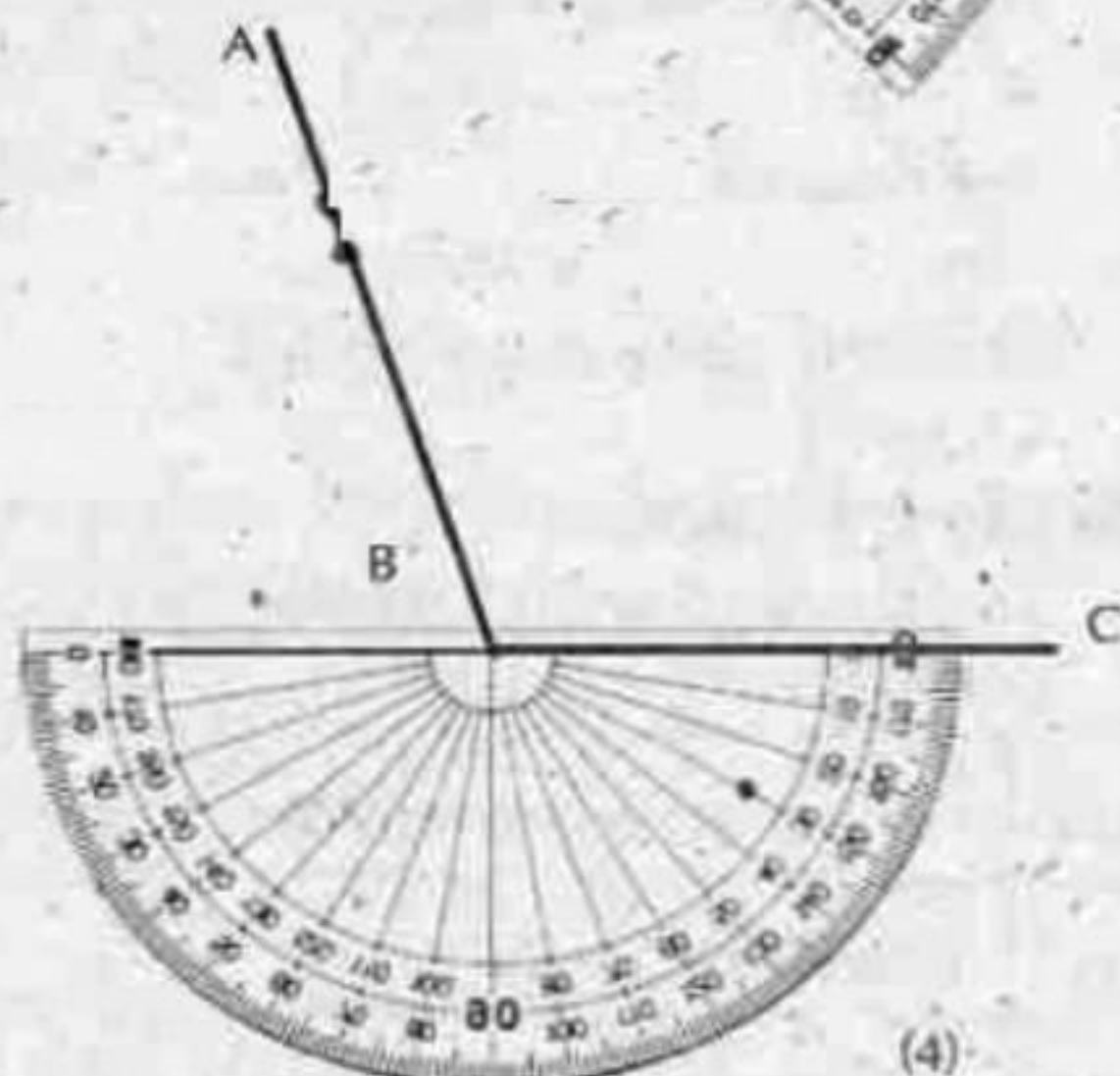
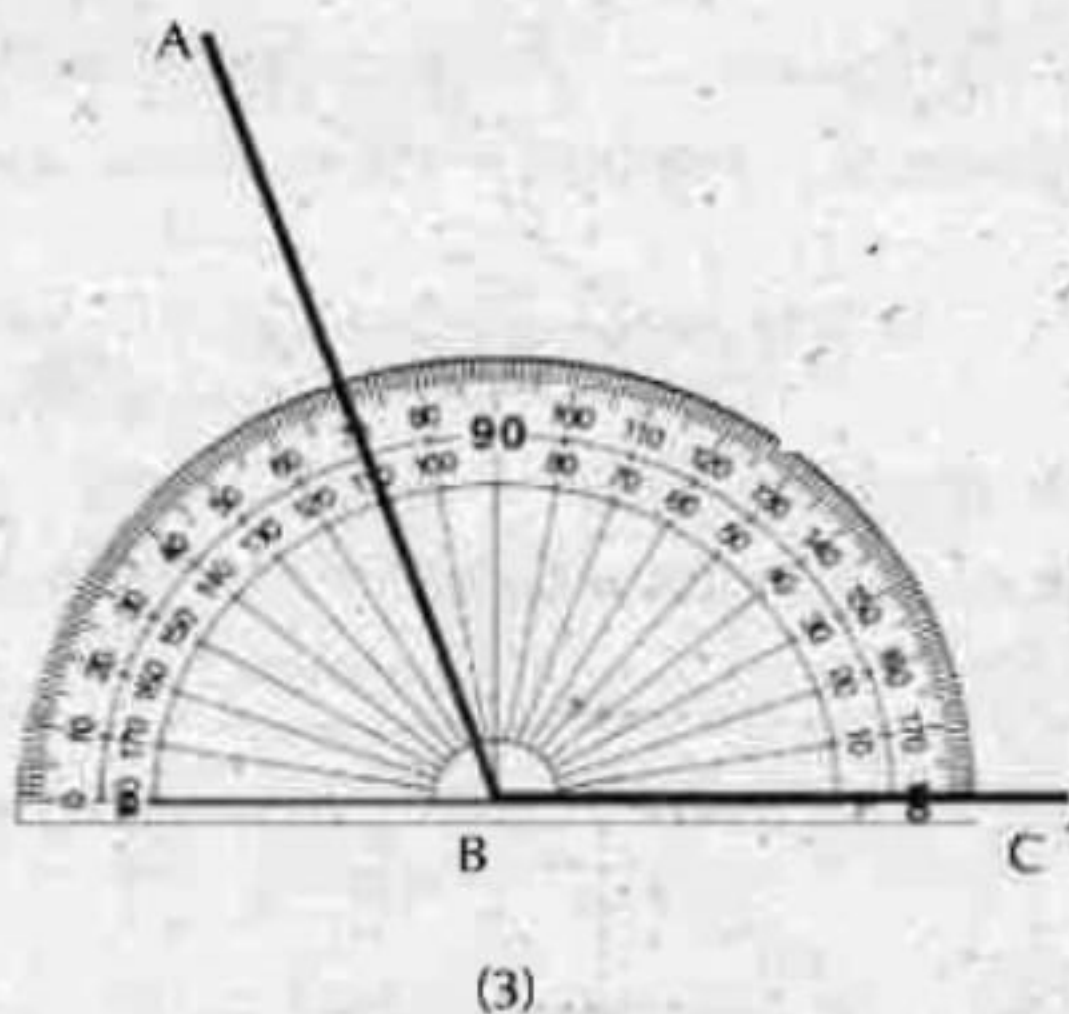
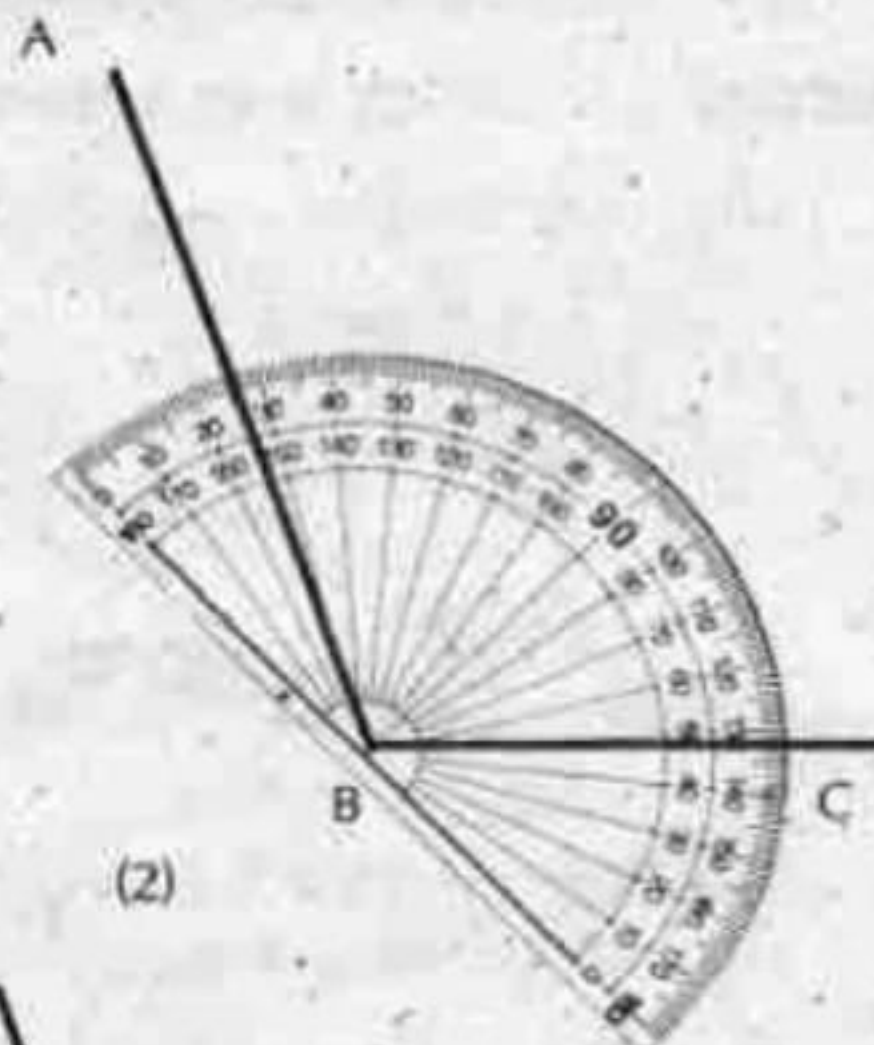
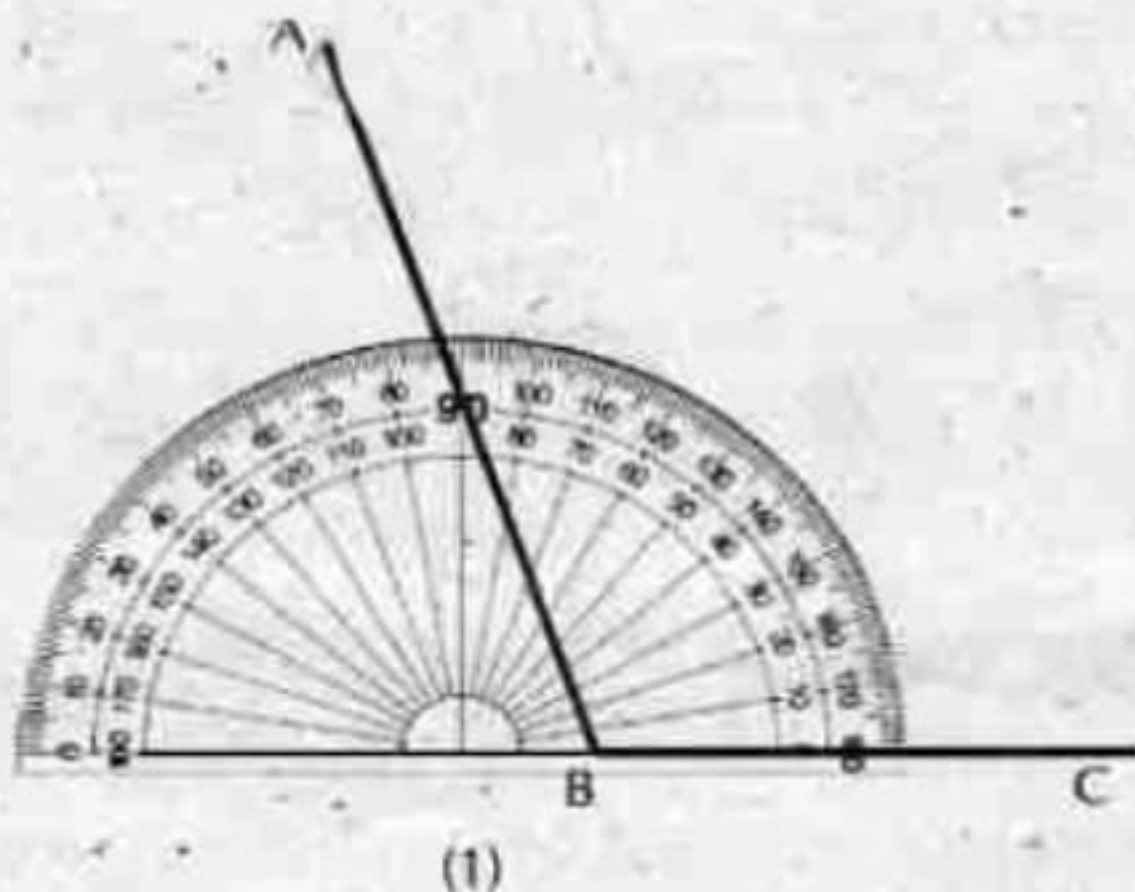
Time : 2 hrs

Instructions

1. 15 minutes cool off time is to be allotted for reading and understanding the activities.
2. Answer any **SIX** activities from the given **EIGHT** activities.

Activity 1 - Which is true...?

A worksheet for measuring angles is given to all students. Each student has to measure the angle using a protractor. Students placed the protractor in different ways. Of these, four of them are given below.



- A) Which picture shows the correct position of the protractor?
- B) What is the correct measurement of the angle?
- C) Draw $\angle PQR$ with half the measure of the angle given in the picture.

Activity 2 - Let's Buy. . .

The following table shows the details of items purchased in a school for the noon-meal.

Items	Quantity	Price for 1 kilogram (in rupees)	Total price
Tomato	2 kg	$20\frac{1}{2}$	41 rupees
Potato	$3\frac{1}{2}$ kg	25	*****
Peas	5 kg	$30\frac{1}{2}$	*****
Dal	$2\frac{1}{4}$ kg	32	*****

- A) What is the total weight of all the items?
- B) Complete the table.
- C) Which item has the highest price?

Activity 3 - Clock and Needle

The following pictures of clocks show different time.



A



B



C

- A. Which among the following is correct with regard to the hands of the clock in the order 90° , greater than 90° , less than 90° ?
1) A, B, C 2) A, C, B 3) B, C, A 4) C, B, A
- B. The time shown in Clock A is 3 O'clock. How much degrees will the minute hand move to reach the time at 3.15?
- C. Draw the hands of the clock, which shows 4 O'clock. Also write the angle formed at 4 O'clock.

Activity 4 - Cricket

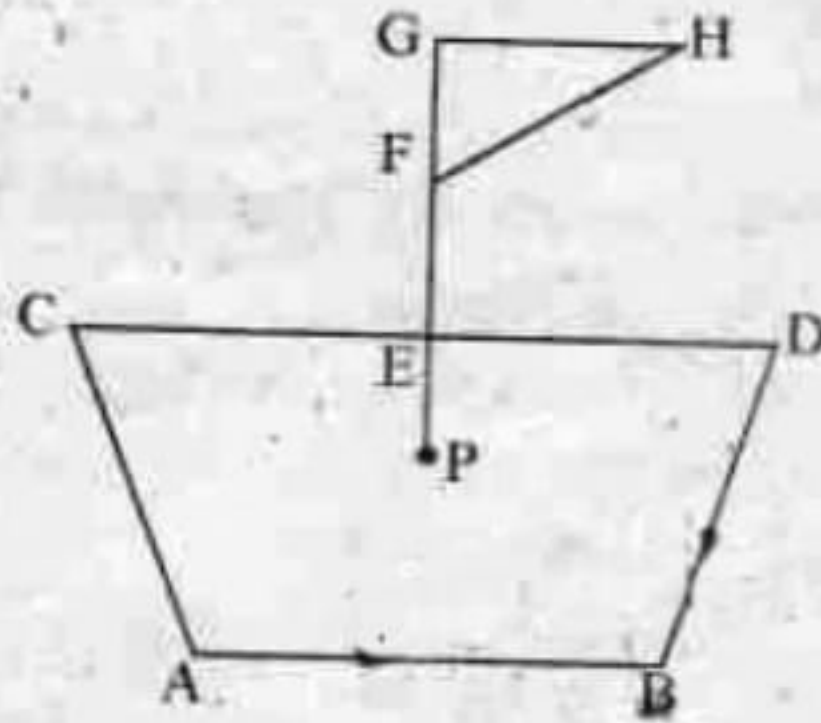
The scores gained by the Indian cricket team in various matches in a series are given below.

Sl.No.	Name of the player	Match 1	Match 2	Match 3	Match 4	Match 5	Average score
1	Shikhar Dhavan	35	40	45	50	55	
2	Revindra Jadeja	35	62	33	30	Not played	
3	Rohit Sharma	43	32	35	33	57	40
4	Virad Kohli	38	36	42	Not played	48	

- A) The scores of Sikhar Dhavan is in a sequence. What is his average score? Which is the simplest way to find the average?
- B) Find the average score of each player and complete the table.
- C) Who is the man of the series? (Based on the highest average score)

Activity 5 - Flag Post

Look at the diagram of flag post in Raju's school.



- A) How many angles are there in the picture?
- B) Which type of angles are more in the picture?
- C) Classify and complete the table.

Greater than 90° (Name of the angle)	Less than 90° (Name of the angle)	Right angle (90°) (Name of the angle)
.....
.....
.....

Activity 6 - Class Library

For setting class library, students of class 6 collected amount as donation. Details are given below.

Division	Number of students	Donation (in rupees)	Average
6 A	20	500
6 B	800	32
6 C	30	50

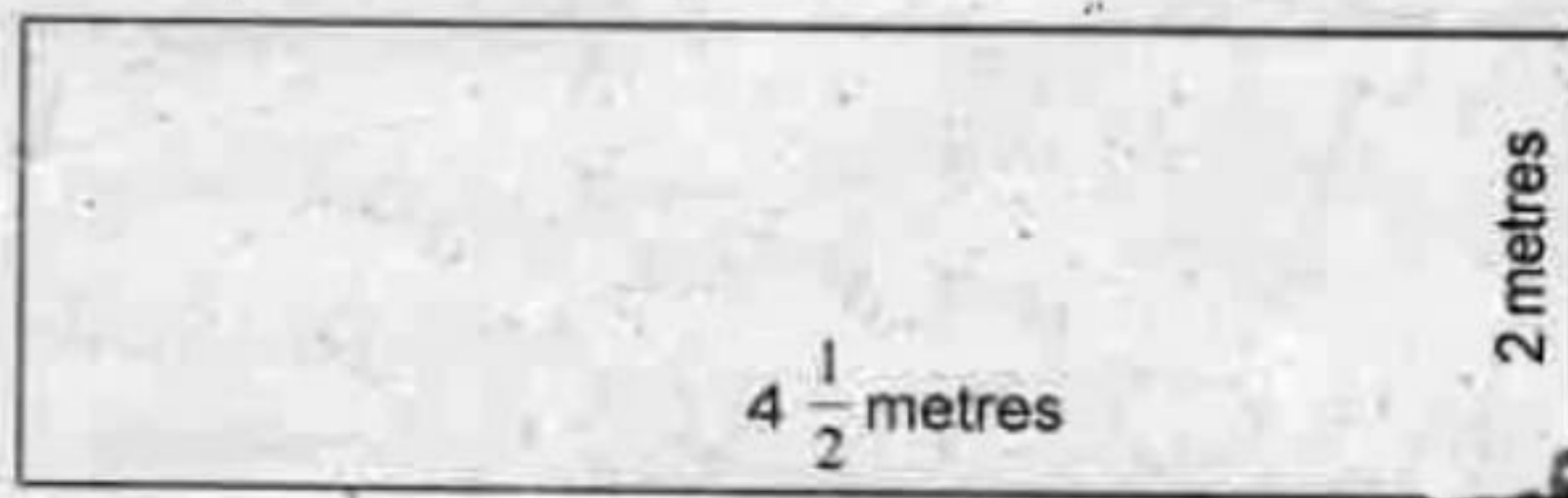
- A) Draw and complete the table.

- B) When one more student joined in class 6 A; the average increased by 5 rupees. Which among the following is the amount collected from 6 A?

1. $30 \times 20 = 600$
2. $30 \times 21 = 630$
3. $25 \times 20 = 500$
4. $25 \times 21 = 525$

Activity 7- School Renovation



Janakiya Samithi decided to renovate Raju's school. As a part of this, Raju and his friends decided to pave tiles on the verandah. The sketch of the verandah is given below.



- A) What is the area of the verandah?
- B) How many square tiles of side $\frac{1}{2}$ metre, are required to pave the verandah?
- C) What part of the verandah is the area of one square tile?
- D) After finishing the work, how many tiles will be in length wise?

Activity 8 - Ramu's Farm

Khadar and Francis are coconut plucking workers. They used to work in two farms of Ramu. The number of coconut trees in Ramu's farms are given below.

Farm-1	Farm-2
 400 coconut trees	 332 coconut trees

Khadar took 5 days in Farm-1 and Francis took 4 days in Farm-2 for plucking coconuts.

- A) What is the average number of coconut trees climbed by each of them in one day?
- B) Based on the average, who can be considered as the best climber. Why?
- C) What is the difference between their averages?