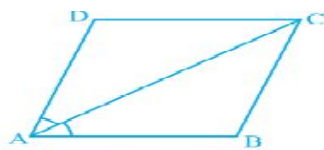# HARI VIDYA BHAWAN

Date – 20/02/2021

PRACTICE WORKSHEET-70
SUBJECT – MATHEMATICS
CLASS – IX
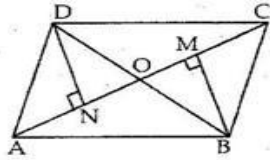### SESSION - (2020-21)

Instructions to be followed: -

1: -From now onwards students do your worksheets in your particular subject notebook respectively. Don't use rough sheets, old copies or anything else. All the stationary shops have already opened. So, you can purchase it.

2: - All the students must complete their worksheets as Periodic test marks will be given to those who completes it else you will have to go through pen paper test after the school reopens.

3: - Read each and every topic (which will be given in worksheets) of the chapters from NCERT books.

4: - All the students must purchase NCERT books as it will help you to understand the chapter.

5: - If you have any query related to worksheet, ask your queries in WhatsApp group between 8:00 am to 3:00 pm.

---

1. The radius of a spherical balloon increases from 7cm to 14cm as air is being pumped into it. Find the ratio of surface areas of the balloon in the two cases.

2. Name of the polynomial on the basis of degree: $5x + 8x^3$

3. If 4x=1, then find the decimal expansion of x.

4. If $(2x-5)°$ and $(x-10)°$ are complementary angles, find the angles.

5. Two adjacent angles on a straight line are in the ratio 2: 7. Find the measure of each one of these angles.

6. Draw an angle of 100° with the help of a protractor and bisect it by using compass.

7. Diagonal AC of a parallelogram ABCD bisects ∠A (see below figure). Show that diagonal AC bisects ∠C.

8. Construct an equilateral triangle each of whose sides measures 7 cm.

9. An isosceles triangle has perimeter 30 cm and each of the equal sides is 12 cm. Find the area of the triangle.

10. Find three rational numbers lying between 5.6 and 5.7

11. If $p(x) = 3x - x^2 + 2x^3$, find $p(0) + p(2) + p(-1)$

12. A metallic sphere of radius 7 cm is melted and then recast into smaller cones, each of radius 3.5 cm and height 4 cm. How many cones are obtained?

13. In the adjoining figure, BM $\perp$ AC and DN $\perp$ AC. If BM=DN, prove that AC bisects BD.

14. Find the area of a triangular field of sides 3 m, 4 m and 5 m. Also find the altitude corresponding to the shortest side.

15. What is primary and secondary data? Give two examples of each.

HARI VIDYA BHAWAN
Subject: Social Science
Class-IX
Work sheet-70

DATE:- 20/02/2021,

Instructions to be followed-

1. *From now onwards students do your worksheets in your particular subject notebook respectively. Don't use rough sheets, old copies or anything else. All the stationary shops have already opened. So you can purchase it.*
2. *All the students must complete their worksheets as periodic test marks will be given to those who completes it else you will have to go through pen paper test after the school reopens.*
3. *Read each and every topic (which will be given in worksheets) of the chapters from NCERT books.*
4. *All the students must purchase NCERT books as it will help you to understand the chapters.*
5. *If you have any query related to worksheet, ask your queries in whatsapp group between 8:00 am to 03:00pm.*

Chapter 2 Geography

Physical features of India (Map work)

Question:- On an outline map of India show the following:-

- The Karakoram
- The Zaskar
- The Patkai Bum
- The Jaintia
- The Vindhya range
- The Aravali
- The Cardamom hills
- K2
- Kanchenjunga