

## HOLIDAYS' HOMEWORK (AUTUMN BREAK)

### CLASS:7 MATHS

#### Questions for Practice: RATIONAL NUMBERS

Q1. In the standard form of a rational number, the common factor of numerator and denominator is always:

- (a) 0 (b) 1 (c)  $-2$  (d) 2

Q2: Which of the following rational numbers is equal to its reciprocal?

- (a) 1 (b) 2 (c)  $\frac{1}{2}$  (d) 0

Q3. How many rational numbers are there between two rational numbers?

- (a) 1 (b) 0 (c) unlimited (d) 100

Q4. To reduce a rational number to its standard form, we divide its numerator and denominator by their

- (a) LCM (b) HCF (c) product (d) multiple

Q5. Which is greater number in the following?

- (a)  $-\frac{1}{2}$  (b) 0 (c)  $\frac{1}{2}$  (d)  $-2$

Q6. A rational number is defined as a number that can be expressed in the form  $\frac{p}{q}$ , where p & q are integers and

- (a)  $q = 0$  (b)  $q = 1$  (c)  $q \neq 1$  (d)  $q \neq 0$

Q7. Reduce the following rational number in its lowest form:  $-\frac{60}{72}$ .

Q8. Are the rational numbers  $-\frac{8}{28}$ , and  $\frac{32}{-112}$  equivalent? Give reason.

Q9. Arrange the rational numbers  $-\frac{7}{10}$ ,  $\frac{5}{-8}$ ,  $\frac{2}{-3}$ ,  $-\frac{1}{4}$ ,  $-\frac{3}{5}$  in ascending order.

Q10. Give two rational numbers equivalent to:  $\frac{7}{8}$

Q11. Represent the following rational numbers on a number line:  $\frac{3}{8}$ ,  $-\frac{7}{3}$

Q12. List Five rational numbers between  $\frac{5}{7}$  and  $\frac{7}{8}$ .

#### Questions for Practice: TRIANGLES AND ITS PROPERTIES

1. How many altitudes can a triangle have?

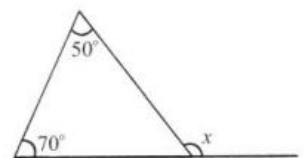
- (a) 1 (b) 2 (c) 3 (d) 4

2. A/an ..... connects a vertex of a triangle to the midpoint of the opposite side.

- (a) altitude (b) median (c) vertex (d) none of these

3. Find the value of x in the adjoining figure.

- (a)  $50^\circ$  (b)  $70^\circ$  (c)  $120^\circ$  (d)  $180^\circ$

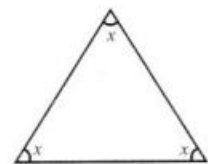


4. In the Pythagoras property, the triangle must be

- (a) acute angled (b) right angled (c) obtuse angled (d) none of these

5. Find the value of x in this figure.

- (a)  $40^\circ$  (b)  $60^\circ$  (c)  $35^\circ$  (d)  $180^\circ$



6.  $\Delta PQR$  is right angled at P. If  $PQ = 3$  cm and  $PR = 4$  cm, find QR.

- (a) 7 cm (b) 5 cm (c) 2 cm (d) none of these.

7. Which is the longest side in  $\Delta PQR$  right angled at P?

- (a) PQ (b) QR (c) PR (d) none of these.

8. The hypotenuse of a right triangle is 17 cm long. If one of the remaining two sides is 8 cm in length, then the length of the other side is: (a) 15 cm (b) 12 cm (c) 13 cm (d) none of these.

9. How many acute angles can a right triangle have? (a) 1 (b) 2 (c) 3 (d) 0

10. One of the angles of a triangle is  $100^\circ$  and the other two angles are equal. Find the measure of each of these equal angles.

- (a)  $45^\circ$  (b)  $40^\circ$  (c)  $41^\circ$  (d)  $42^\circ$

## VII Holidays Homework

### Subject – Science

- A. Revise Chapter –a) Transportation in Plants and Animals b) Reproduction in Plants and answer the following questions.
1. Draw a well labelled diagram of  
(i) Heart (ii) Excretory System (iii) Circulatory System (iv) Male part of flower  
(v) Female part of flower (vi) Self Pollination (vii) Cross Pollination
  2. What is the difference between Xylem and Phloem ?
  3. Describe the function of heart.
  4. Define transpiration.
  5. What is the function of blood. What are the components of blood ?
  6. What is the difference between sexual and asexual reproduction ?
  7. Define vegetative propagation , pollination.
- B. Observe your surrounding and draw at least 5 organisms that you think either help in pollination or in dispersal of seed.
- C. Make a list of 5 fruits and count the number of seeds present in them.  
Are there any fruits where you didn't find any seed ? How did they grow then ?  
Are there any fruits where there are so many seeds that you couldn't count them.
- D. Read Chapter – Motion and Time and answer the following questions-
1. Define circular motion, periodic motion , rectilinear motion.
  2. Draw a poster depicting one example each of different type of motion.

# Social Science Holiday Homework

## Class-7

1. Draw the following and colour them as mentioned below:
  - River Ganga, Brahmaputra and Indus-blue colour
  - Coastal plains-green colour
  - Thar Desert-yellow colour
  - Indian Ocean-blue colour
2. Mark major places of Bhakti movement on a political map of India.
2. Read stories related to rulers of India
3. Make 10 MCQ from every chapter that has been completed.
4. Learn the chapters done after half-yearly
5. Write difficult words found in social science book in your notebook.
6. Make 10 questions on constitution of India

HOLIDAY HOMEWORK \*ART & CRAFT\*

1. One Landscape with water / acrylic colour on ivory sheet.

(Size minimum A4)

2. One creative Painting with acrylic colour on ivory sheet.

( Size minimum A4)

3. One craft work with waste material like old newspaper, clothes, plastic bottles and bags, waste wood and any other types of waste materials.

4. One painting on warli art with acrylic colour on ivory sheet. (Size minimum A4)

\*\*\*BEST OF LUCK AND ENJOY THE HOLIDAY \*\*\*

## कक्षा -VII संस्कृत

- 1.संस्कृत प्रतजिज्ञा लखिए एवं याद कीजिए ।
- 2.संस्कृत में 1 से 50 तक संस्कृत गणिती लखिए एवं याद भी करें ।
3. बालक एवं बालिका शब्दरूप लखिए ।
4. नमिन् समयवाचक शब्दों के चत्तिर बनाकर संस्कृत में लखिए  
4:00 बजे, 10:30 बजे, 12:00बजे ,7:00 बजे।
- 5 नमिन् धातुओं की सहायता से दस दस वाक्य लखिए  
(चल, हस,खेल,खाद,गाय, गच्छ,लखि,नृत्य,वद)  
प्रथमपुरुषः - बालकः पठति(एकवचनम्) बालकौ पठतः(द्वविचनम्) बालकाः  
पठन्ति(बहुवचनम्)
6. चल, पठ, हस धातुओं के लटलकार में धातुरूप लखिए।

**शरदकालीन अवकाश गृहकार्य**

सत्र 2023-24

कक्षा :- सात

वर्ष :- हिंदी

प्रश्न 1:- 20 विलोम शब्द लिखिए

प्रश्न 2 बीस शब्दों के पर्यायवाची शब्द लिखिए

प्रश्न 3 कारक की परिभाषा लिखिए तथा कारक के भेद उदाहरण सहित लिखिए।

प्रश्न 4 विशेषण की परिभाषा लिखिए तथा भेद भी लिखें।

प्रश्न 5 हिंदी छात्र प्रतज्ञा याद करें।

प्रश्न 6 अपने मतिर को जन्मदिन पर बधाई देने हेतु पत्र लिखिए।

प्रश्न 7 निम्न में से किसी एक पर सौ शब्दों में निबंध लिखिए।

1 हमारा विद्यालय

2 मेरा प्रिय खेल

3 हिंदी भाषा ।

” शुभकामनाओं सहित”