

DAV PUBLIC SCHOOL, GOLE MARKET

SUMMER HOLIDAY HOMEWORK

(session-2020 - 2021)

Class:-VII

Science

1. Make a simple working toy or prepare any game using the waste materials available at home. You can take the help of your family members. Prepare a small video to explain its working and method of preparation. Innovative, Creative and eco-friendly ideas will be appreciated.
2. List any 1 physical or chemical change that you see around you. Capture them on camera and make a slideshow to show the changes. Like: Germination of seeds. Blooming of flowers from flower buds, Rotting of food, growth of fungus on a bread. etc.

English

1. Finger Puppets:

Create a pair of finger puppets. Also prepare a small skit in the form of a conversation between two famous personalities. Enact the play to your family using your finger puppets.

2. Write an article (in 400 words) describing the ways that the pandemic has brought human beings closer to nature. Describe the effects of the pandemic on different countries, their environment and pollution levels. Also reflect on the ways in which you feel closer to nature.
3. Watch the following movies during the vacation

Kung Fu Panda

Charlie and the Chocolate factory

Home Alone

Write a critical review of one of the movies. Mention why would you suggest this movie to others. Mention the name of the Director and actors.

4. Make a drawing to celebrate our health care workers who have sacrificed a lot for our health and safety. Write a note of thanks for them..

HINDI

ग्रीष्मावकाश गृहकार्य

कक्षा – सातवीं

1. हिंदी टाइपिंग द्वारा लिखने का अभ्यास करे –

क . स्वरचित कविता

ख . पाँच लघु शिक्षाप्रद कहानियाँ

२. क्रियाकलाप – 'मैं ऐसा क्यों हूँ ?'

अभिनय द्वारा अपने चेहरे से दिए गए भावों को अभिव्यक्त कीजिए
और फ़ोटो खींचिये-

1. गुस्से से छटपटाना
2. टकटकी लगाकर देखना
3. भयभीत होना
4. कुढ़ना
5. रुआंसा होना
6. खुश होना

उपरोक्त भावों में से स्वयं को पहचाने जैसे आप गुस्सैल हैं
खुशमिजाज़ हैं या डरपोक हैं इत्यादि और उसे कम से कम दस पंक्तियों में व्यक्त करे
की आप ऐसे क्यों हैं ?

MATHS

1) LEARN TO SOLVE A RUBIK'S

<https://www.youtube.com/watch?v=R-R0KrXvWbc>

2) CREATE YOUR OWN MATHEMATICAL MODEL OR TOY ON ANY ONE OF THE GIVEN TOPICS:

A) PERIMETER AND AREA

B) TRIANGLES

C) EXPONENTS AND RADICALS

D) SYMMETRY

E) VISUALISING SOLIDS

3) PREPARE PRESENTATION ON ANY ONE OF THE GIVEN TOPICS:

A) TYPES OF ANGLES

B) NUMBER SYSTEM

C) TYPES OF TRIANGLES

D) SHAPES OF GEOMETRY

E) REPRESENTATION OF NUMBERS ON NUMBER LINE

ASSIGNMENT

Q1. Find the value of-

(a) $\frac{4}{3} + \frac{1}{3}$

(b) $\frac{7}{16} + \frac{9}{64}$

Q2. Verify $x + y = y + x$ for the following values of x and y.

(a) $x = \frac{7}{20}$, $y = \frac{5}{18}$

(b) $x = \frac{-15}{21}$, $y = \frac{-2}{14}$

Q3. Verify $x + (y + z) = (x + y) + z$ for the following values of x, y and z.

(a) $x = \frac{-5}{18}$, $y = \frac{4}{9}$, $z = \frac{3}{18}$

(b) $x = \frac{3}{4}$, $y = \frac{5}{2}$, $z = \frac{1}{6}$

Q4. Multiply the following-

(a) $\frac{64}{12} \times \frac{24}{16}$

(b) $\frac{-58}{45} \times \frac{30}{-24}$

Q5. Verify $x \times y = y \times x$ for the following values of x and y.

(a) $x = \frac{-4}{25}$, $y = \frac{5}{16}$

(b) $x = \frac{-49}{20}$, $y = \frac{-32}{98}$

Q6. Verify $x \times (y \times z) = (x \times y) \times z$ **for the following values of x, y and z.**

(a) $x = \frac{-4}{10}$, $y = \frac{5}{64}$, $z = \frac{32}{3}$ (b) $x = \frac{21}{18}$, $y = \frac{-49}{15}$, $z = \frac{-45}{7}$

Q7. Write the additive inverse of the following-

(a) $\frac{-7}{16}$ (b) $-(\frac{-91}{100})$ (c) $\frac{84}{25}$

Q8. Write the multiplicative inverse of the following-

(a) -1 (b) $\frac{31}{-94}$ (c) $\frac{68}{49}$

Q9. Find the reciprocal of :

(a) $\frac{-6}{77}$ (b) $\frac{33}{99}$ (c) $\frac{-31}{-19}$

Q10. Check if the reciprocal of $\frac{-1}{8}$ is -8 ?

Q11. Verify $x \times (y + z) = x \times y + x \times z$ **for the following values of x,y and z.**

(a) $x = \frac{4}{9}$, $y = \frac{1}{4}$, $z = \frac{1}{2}$ (b) $x = \frac{5}{8}$, $y = 4$, $z = 16$

Q12. Divide:

(a) $\frac{5}{2}$ **by** $\frac{-30}{32}$ (b) $\frac{-3}{10}$ **by** $\frac{40}{5}$ (c) $\frac{-98}{-36}$ **by** $\frac{16}{42}$

Q13. Insert a rational number between :

(a) $\frac{1}{6}$ **and** $\frac{-5}{6}$ (b) $\frac{-3}{7}$ **and** $\frac{-6}{7}$ (c) -4 **and** 8

Q14. Fill in the following blanks:

- (a) There are _____ rational numbers between two rational numbers.
- (b) _____ and _____ are their own reciprocals.
- (c) $x + (y + z) = (_____ + _____) + _____$
- (d) $a \times 1 = _____$
- (e) $-b + _____ = -b$
- (f) Identity element of addition of the rational number is _____
- (g) 1 is the identity element of _____ of rational numbers.

Ch-1 Rational Numbers

MCQs

1. Which of the following are not rational numbers:

a) $\frac{0}{2}$ b) $\frac{-3}{0}$ c) 0 d) $\frac{-1}{-3}$

2. The absolute value of $\frac{-3}{4}$ is

a) $\frac{-3}{4}$ b) $\frac{-3}{-4}$ c) $\frac{3}{-4}$ d) $\frac{3}{4}$

3. Which of the rational numbers is greatest:

a) $-\frac{1}{2}$ b) $\frac{3}{4}$ c) $\frac{7}{-4}$ d) $\frac{5}{4}$

4. Which of the rational numbers $\frac{4}{9}$, $\frac{-5}{6}$, $\frac{-7}{-12}$, $\frac{11}{-24}$ is the smallest?

(a) $\frac{4}{9}$ (b) $\frac{-5}{6}$ (c) $\frac{-7}{-12}$ (d) $\frac{11}{-24}$

5. Which of the following rational numbers is in the standard form?

(a) $\frac{-9}{28}$ (b) $\frac{-26}{78}$ (c) $\frac{-14}{16}$ (d) $\frac{48}{-96}$

6. Which of the following forms a pair of equivalent rational numbers?

(a) $\frac{24}{40}$ and $\frac{35}{50}$ (b) $\frac{-25}{35}$ and $\frac{55}{-77}$ (c) $\frac{-8}{15}$ and $\frac{-24}{48}$
(d) $\frac{9}{72}$ and $\frac{-3}{21}$

7. Which of the following rational numbers are positive?

(a) $\frac{-8}{7}$ (b) $9/8$ (c) $\frac{-19}{-13}$ (d) $\frac{-21}{13}$

8. Which of the following rational numbers are negative?

(i) $\frac{-3}{7}$ (ii) $\frac{-5}{-8}$ (iii) $\frac{9}{-83}$ (iv) $\frac{-115}{-197}$

Ch-2 Operations on Rational Numbers

MCQs

1. The sum of the rational numbers: $\frac{-8}{19}$ and $\frac{-4}{37}$ is _____

(a) $\frac{-5}{57}$ (b) $\frac{7}{22}$ (c) $\frac{-28}{57}$ (d) $\frac{4}{27}$

2. What number should be added to $\frac{3}{8}$ to get $\frac{-1}{24}$?

(a) $\frac{-5}{12}$ (b) $\frac{-7}{23}$ (c) $\frac{31}{72}$ (d) $\frac{2}{33}$

3. Simplify: $\frac{2}{3} + \frac{-4}{5} + \frac{7}{15}$

- (a) $\frac{-1}{3}$ (b) $\frac{1}{3}$ (c) $\frac{-4}{15}$ (d) $\frac{-7}{30}$

4. What number should be subtracted from $\frac{-3}{4}$ so as to get $\frac{5}{6}$?

- (a) $\frac{-3}{10}$ (b) $\frac{-5}{24}$ (c) $\frac{-19}{12}$ (d) $\frac{9}{25}$

5. The sum of two rational numbers is -7. If one of the numbers is $\frac{-15}{19}$, the other number is _____

- (a) $\frac{-21}{10}$ (b) $\frac{-57}{16}$ (c) $\frac{7}{9}$ (d) $\frac{-118}{19}$

6. The additive inverse of $\frac{-7}{9}$ is

- (a) $\frac{-7}{9}$ (b) $\frac{7}{9}$ (c) $\frac{9}{7}$ (d) $\frac{-9}{7}$

7. The multiplicative inverse of $\frac{1}{3}$ is

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

8. Identity element for subtraction of rational numbers is

- (a) 1 (b) 0 (c) -1 (d) does not exist

9. The reciprocal of $\frac{-2}{5} \times \frac{3}{-7}$ is vvv

- (a) $\frac{-6}{35}$ (b) $\frac{6}{35}$ (c) $\frac{35}{6}$ (d) $\frac{35}{-6}$

10. Divide: -10 by $\frac{1}{5}$

- (a) -2 (b) 2 (c) $\frac{5}{-2}$ (d) -1

Do as directed

11. Find the value of $\left\{ \frac{-8}{13} \times \frac{26}{-3} \right\}$

12. Find the value of $\frac{-21}{3} + \frac{-18}{3}$

13. Find a rational number between $\frac{-1}{3}$ and $\frac{1}{3}$

14. If 12 shirts of equal size can be prepared from 27m cloth, what is the length of cloth required for each shirt.

15. Multiply: $\frac{-4}{3} \times \frac{27}{8}$

16. Write all the rational numbers whose absolute value is $\frac{5}{9}$

17. Subtract: $\frac{3}{16}$ from $\frac{-5}{8}$

18. Divide : $\frac{-2}{5} \div \frac{-30}{7}$

19. Find the value of : $1 + (\frac{-1}{6})$

20. Subtract $\frac{-8}{11}$ from 0

State whether the following statements are true or false:

21. If $|x|=0$, then x has no reciprocal.

22. The negative of a negative rational number is a positive rational number.

23. Between two rational numbers there are infinitely many rational numbers.

24. The reciprocal of $\frac{1}{5}$ is -5.

25. 1 is the identity element for addition of rational numbers.

26. $\frac{-3}{7}$ is the additive inverse of $\frac{3}{7}$

27. $\frac{-2}{3} + \frac{4}{3}$ is a rational number.

28. $\frac{-8}{13} + 0 = 0$

29. Product of two rational numbers can never be an integer.

30. If $x < y$ then $|x| < |y|$

CHAPTER 1 RATIONAL NUMBERS

1) Is $\frac{6}{0}$ a rational number? Why or why not?

2) Write three rational numbers equivalent to $\frac{4}{5}$.

3) Find x if $\frac{6}{12} = \frac{x}{3}$

4) Represent $\frac{2}{3}$ on number line.

5) Compare $\frac{7}{5}$ and $\frac{8}{6}$

6) Calculate the absolute value of $\frac{6}{-12}$, $\frac{5}{4}$.

Social Science

Make an advertisement for getting admission to your school giving all the salient features of the school.

(5 mark activity)

Draw ,colour and explain the rock cycle(in detail)

Google worksheet.

SANSKRIT

प्रश्न1 निम्न शब्दों से वाक्य बनाओ | (संस्कृत में)

प्रश्न 1 सिंहः, 2 वानरः, 3आम्रम्, 4उधानम्,5 पर्वत ,6 सूर्य;

7कमलः 8,आकाशे , 9 खगाः , 10 वानरः

प्रश्न 2 पठ ,गम ,स्था ,नम ,भू ,अस ,कृ धातु –लट ,लृट ,लङ् लकार याद करो | और लिखो

प्रश्न 3 बालक ,लता फल, राम,नदी , मुनि शब्द रूप लिखो और याद करो |

प्रश्न4 चित्र वर्णन (5 वाक्य लिखो) (संस्कृत में)-



|संख्या 1-50 (संस्कृत में)

गतिविधि: (1) सत्संगति: इस विषय पर अपनी पाठ्य पुस्तक में से कोई

दो श्लोक याद कर के लिखो | (संस्कृत में)

गतिविधि: (2) पेड़ो का हमारे जीवन में बहुत महत्व है | इस विषय पर

दस वाक्य लिखो | (संस्कृत में)

सारा कार्य अलग कॉपी मे करो |

नैतिक शिक्षा

1. किसी भी एक महापुरुष की जीवनी के बारे में बताते हुए अपना वीडियो बनाए ।
2. प्रतिदिन सुबह उठकर किन्ही पाँच योगासन का अभ्यास करें (घर में किसी बड़े की देखरेख में) ।

