

## Week 1 (01/04/2020 – 05/04/2020)

Shreeram Model School			
Home Assignments			
Class 8			
Week / Date	Subject	Topic	Topic link
01/04/2020	English	Articles Determiners	<a href="https://www.cbsetuts.com/cbse-class-8-english-grammar-article/">https://www.cbsetuts.com/cbse-class-8-english-grammar-article/</a> <a href="https://youtu.be/SrHrTUZWww4">https://youtu.be/SrHrTUZWww4</a>
to			<a href="https://youtu.be/4iKjfnvbjw">https://youtu.be/4iKjfnvbjw</a>
05/04/2020	Science	Microorganisms and viruses	
		Friends and foe	<a href="https://youtu.be/QeF0QmjfSmo">https://youtu.be/QeF0QmjfSmo</a>
	Maths	Rational numbers	<a href="https://youtu.be/9_Ak4tgnAt4">https://youtu.be/9_Ak4tgnAt4</a>

### SCIENCE

#### Microorganisms and viruses: Friends and foe

##### Multiple Choice Questions

- Spyrogyra is
  - An algae
  - A fungi
  - A protozoa
  - A bacteria
- Vaccine for small pox is discovered by
  - Louis Pasteur
  - Alexander Fleming
  - Edward Jenner
  - John Mendal
- Amount of nitrogen in the atmosphere is
  - 58%
  - 68%
  - 78%
  - 88%
- Mushroom belongs to
  - Algae
  - Virus
  - Fungi
  - None of these
- Amoeba belongs to
  - Algae
  - Fungi

- III. Protozoa
- IV. Virus

6. Scientist who discovered fermentation is

- I. Alexander Fleming
- II. Louis Pasteur
- III. John Mendal
- IV. Edward Jenner

7. Rhizobium bacteria

- I. Help in digestion
- II. Help in nitrogen fixation
- III. Cause diseases
- IV. All of the above

8. Malaria is caused by

- I. Protozoa
- II. Virus
- III. Algae
- IV. Bacteria

9. Penicillium is a

- I. Algae
- II. Fungus
- III. Bacteria
- IV. Yeast

10. Microorganisms are

- I. Unicellular
- II. Multi-cellular
- III. Both
- IV. None of these

### Very Short Answer Type Questions

1. Unscramble the jumbled words underlined in the following statements.
  - (a) Cells of our body produce santiidobe to fight pathogens.
  - (b) curbossulite is an air-borne disease caused by a bacterium.
  - (c) Xanrhat is a dangerous bacterial disease.
  - (d) Yeasts are used in the wine industry because of their property of meronettinaf.
2. Suggest a suitable word for each of the following statements.
  - (a) Chemicals added to food to prevent growth of microorganisms.
  - (b) Nitrogen-fixing microorganism present in the root nodules of legumes.
  - (c) Agent which spreads pathogens from one place to another.
  - (d) Chemicals which kill or stop the growth of pathogens.
3. Match the names of scientists given in Column A with the discovery made by them given in Column B.

#### Column A

- (a) Louis Pasteur
- (b) Robert Koch
- (c) Edward Jenner
- (d) Alexander Fleming

#### Column B

- (i) Penicillin
- (ii) anthrax bacterium
- (iii) Fermentation
- (iv) small pox vaccine
- (v) Typhoid

4. Name one commercial use of yeast.
5. Name the process in yeast that converts sugars into alcohol.
6. In the soil, which nutrient is enriched by blue-green algae (cyanobacteria)?
7. Why should we avoid standing close to a tuberculosis patient while he/she is coughing?
8. Polio drops are not given to children suffering from diarrhoea. Why?

9. Paheli watched her grandmother making mango pickle. After she bottled the pickle, her grandmother poured oil on top of the pickle before closing the lid. Paheli wanted to know why oil was poured? Can you help her understand why?

### Short Answer Type Questions

1. Match the microorganisms given in the Column A to the group to which they belong in Column B.

#### Column A

- (a) *Lactobacillus*
- (b) *Aspergillus*
- (c) *Spirogyra*
- (d) *Paramecium*

#### Column B

- (i) Algae
- (ii) Protozoa
- (iii) Fungi
- (iv) Bacteria

2. Classify the following into friendly and harmful microorganisms. Yeast, malarial parasite, *Lactobacillus*, bread mould, *Rhizobium*, *Bacillus anthracis*

#### Friendly

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

#### Harmful

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. While returning from the school, Boojho ate chaat from a street hawker. When he reached home, he felt ill and complained of stomach ache and fell ill. What could be the reason?
4. What will happen to 'pooris' and 'unused kneaded flour' if they are left in the open for a day or two?
5. (a) Name two diseases that are caused by virus.  
(b) Write one important characteristic of virus.
6. How can we prevent the following diseases?
1. (a) Cholera
  2. (b) Typhoid
  3. (c) Hepatitis A
7. Complete the following cycle given as Fig. 2.4 by filling the blanks (a), (b), (c) (d)

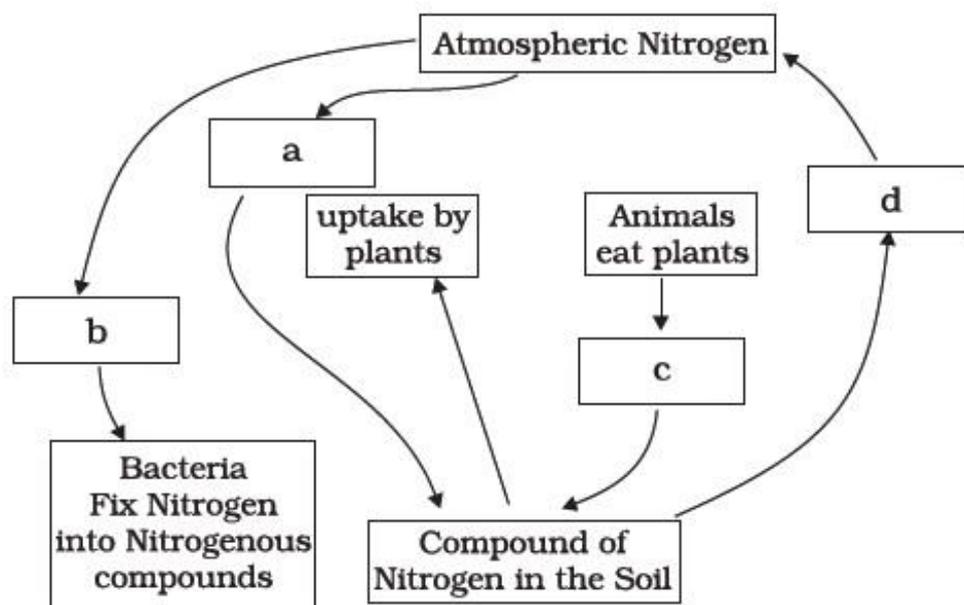


Fig. 2.4

## Maths

### Rational Numbers

1. Using appropriate properties find:

$$(a) \left[ -\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \right] =$$

$$(b) \frac{2}{5} \times \left[ \frac{-3}{7} + \left( \frac{-1}{6} \right) \right] =$$

2. Write the additive inverse of each of the following :

$$(a) \frac{2}{8} \quad (b) \frac{-5}{9} \quad (c) \frac{-6}{-5} \quad (d) \frac{2}{-9} \quad (e) \frac{19}{-6}$$

3. Verify that  $(-x) = x$  for

$$(a) x = \frac{11}{15} \quad (b) x = \frac{-13}{17}$$

4. Find the multiplicative inverse of the following :

$$(a) -13 \quad (b) \frac{-13}{19} \quad (c) \frac{1}{5} \quad (d) \frac{-5}{8} \times \frac{-3}{7} \quad (e) -1 \times \frac{-2}{5} \quad (f) -1$$

5. Name the property under multiplication used in each of the following :

$$(a) \frac{-4}{5} \times 1 = 1 \times \frac{-4}{5}$$

5. Name the property under multiplication used in each of the following:

$$(a) \frac{-4}{5} \times 1 = 1 \times \frac{-4}{5} = \frac{-4}{5} \quad (b) \frac{-13}{17} \times \frac{-2}{7} = \frac{-2}{7} \times \frac{-13}{17}$$

$$(c) \frac{-19}{29} \times \frac{29}{-19} = 1$$

6. Multiply  $\frac{6}{13}$  by the reciprocal of  $\frac{-7}{16}$

7. Tell what property allows you to compute  $\frac{1}{3} \times \left[ 6 \times \frac{4}{3} \right]$  as  $\left[ \frac{1}{3} \times 6 \right] \times \frac{4}{3}$

8. Is  $\frac{8}{9}$  the multiplicative inverse of  $-1 \left[ \frac{1}{8} \right]$ ? Why or why not?

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9. Is 0.3 the multiplicative inverse of  $3\frac{1}{3}$ ? Why or why not?

10. Write:

- (a) The rational number that does not have a reciprocal.
- (b) The rational numbers those which are equal to their reciprocals.
- (c) The rational number that is equal to its negative.

11. Fill in the blanks:

- (a) Zero has \_\_\_\_\_ reciprocal.
- (b) The numbers \_\_\_\_\_ and \_\_\_\_\_ are their own reciprocals.
- (c) The reciprocal of  $-5$  is \_\_\_\_\_.
- (d) Reciprocal of  $1/x$ , where  $x \neq 0$  is \_\_\_\_\_.
- (e) The product of two rational number is always a \_\_\_\_\_.
- (f) The reciprocal of a positive rational number is \_\_\_\_\_.

12. Represent these numbers on a number line:

(a)  $\frac{7}{4}$

(b)  $\frac{-5}{6}$

13. Represent  $\frac{-2}{11}$ ,  $\frac{-5}{11}$ ,  $\frac{-9}{11}$  on the number line.

14. Write five rational numbers which are smaller than 2.

15. Find ten rational numbers between  $\frac{-2}{5}$  and  $\frac{1}{2}$

16. Find five rational numbers between:

(a)  $\frac{2}{3}$  and  $\frac{4}{5}$

(b)  $\frac{-3}{2}$  and  $\frac{5}{3}$

(c)  $\frac{1}{4}$  and  $\frac{1}{2}$

17. Write five rational numbers greater than  $-2$

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18. Find ten rational numbers between  $\frac{3}{5}$  and  $\frac{3}{4}$

19. Find  $\frac{3}{7} + \left[ \frac{-6}{11} \right] + \left[ \frac{-8}{21} \right] + \frac{5}{22}$

20. Find  $\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left[ \frac{-14}{9} \right]$

21. Write the additive inverse of the following:

(a)  $\frac{-7}{19}$       (b)  $\frac{21}{112}$

22. Verify that  $-(-x)$  is the same as  $x$  for:

(a)  $x = \frac{13}{7}$       (b)  $x = \frac{-21}{31}$

23. Find  $\frac{2}{5} - \frac{3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{3}{5}$

24. Write any three rational numbers between  $-2$  and  $0$

25. Find any ten rational numbers between  $\frac{-5}{6}$  and  $\frac{5}{8}$

26. Find a rational number between  $\frac{1}{4}$  and  $\frac{1}{2}$

27. Find three rational numbers between  $\frac{1}{4}$  and  $\frac{1}{2}$

## English

(A) Fill in the blanks with 'a' or 'an'. Put a cross (x) where no article is needed.

- (i) ..... little knowledge is ..... dangerous thing.  
(ii) Give me ..... banana, ..... orange, ..... apple and ..... pomegranate.  
(iii) ..... gold is ..... precious metal.  
(iv) I met ..... friend of yours at ..... shop outside the school.  
(v) ..... newspaper is printed on ..... rough paper called newsprint.  
(vi) "How much does ..... kilo of rice cost?" "Rs. 500/- for ..... sack of fifty kilograms".  
(vii) I read ..... lot of comic books.  
(viii) He will not give even ..... inch of his land.  
(ix) I feel at ..... home in this hotel.  
(x) ..... man is mortal.

(B) Fill in the blanks with 'a' or 'an'. Put a cross (x) where no article is needed.

There is (i) ..... gift shop in our neighbourhood. It has (ii) ..... lot of variety of (iii) ..... gift items. It also sells (iv) ..... artificial jewellery. It is run by (v) ..... old man who bought it from (vi) ..... English woman Margaret. These days (vii) ..... annual discount sale is going on there. That's why these days there is (viii) ..... great rush at the shop. It is closed once in (ix) ..... month.

(C) Fill in the blanks with correct articles.

I saw (i) ..... (a/an) university professor from India fighting over (ii) ..... (a/an) a trifle with (iii) ..... (a/an) European colleague of his. (iv) ..... (A/An) hat belonging to the Indian professor had gone missing. Actually (v) ..... (a/an) group of naughty boys had hidden it behind (vi) ..... (a/an) bench in the garden.

What (vii) ..... (a/an) interesting fight it was! Each claimed that he was (viii) ..... (a/an) honest man. A passerby, who was (ix) ..... (a/an) one-eyed man, saw the two fighting and offered to help put (x) ..... (a/an) end to the dispute. The two agreed after (xi) ..... (a/an) bit of hesitation. The passerby said, "I'll charge (xii) ..... (a/an) modest fee."

(D) Rewrite the following sentences using 'a/an' wherever required.

- (i) He is wearing rather silly hat,  
.....  
(ii) That is interesting book.  
.....  
(iii) There is beautiful rainbow in the sky.  
.....  
(iv) Penny is very lazy dog.  
.....  
(v) What enormous dog!  
.....  
(vi) Would you like to eat egg?  
.....

(E) Rewrite the following sentences correctly.

- (i) This tumbler is made of a glass.  
.....  
(ii) An Euro is worth fifty Indian rupees.  
.....  
(iii) I need pair of socks.  
.....  
(iv) Santa Claus travels in an one-horse open sleigh.  
.....  
(v) My sister is a M.A. and my brother is an Master of Science.  
.....  
.....

(A) Fill in the blanks with 'the' wherever necessary. Put a cross (x) where 'the' is not required.

- (i) ..... English is ..... language of ..... English people.
- (ii) ..... Rice is ..... staple food of more than half ..... people in ..... world.
- (iii) ..... Bay of Bengal lies to ..... east of ..... India.
- (iv) I go to ..... college by ..... bus.
- (v) ..... Women are more organised than ..... men, says a study.
- (vi) Mother, is ..... lunch ready?
- (vii) My parents have gone to attend ..... dinner given in honour of ..... Governor.

(B) Underline the correct form (with or without 'the') given in italics in the following sentences.

- (i) Ron hates *dogs* / *the dogs*.
- (ii) Look at *flowers* / *the flowers*. How beautiful they are!
- (iii) I am reading a book about the history of *Roman* / *the Roman* empire.
- (iv) *Life* / *The life* is a wonderful gift of God.
- (v) She likes *coffee* / *the coffee*.
- (vi) Why don't you go to *bed* / *the bed*? It's already half past eleven.
- (vii) My father is at *sea* / *the sea*.
- (viii) *All polar bears* / *All the polar bears* are left-handed.
- (ix) Pass *sugar* / *the sugar*, please.
- (x) Don't interfere with *nature* / *the nature*.

(C) In the following pairs, tick (✓) the sentences which are grammatically acceptable.

- (i) • My father has gone to church to fix the window panes.

• My father has gone to the church to fix the window panes.

- (ii) • The man is a social animal.  
• Man is a social animal.
- (iii) • The Japanese are peace loving people.  
• Japanese are peace loving people.
- (iv) • Father is not at the home.  
• Father is not at home.
- (v) • The Mother is in kitchen.  
• Mother is in the kitchen.
- (vi) • I like to play football.  
• I like to play the football.
- (vii) • Where are keys?  
• Where are the keys?

(D) In the following pairs, fill in the blanks with 'the' wherever necessary. Put a (x) where 'the' is not required.

- (i) • Please call ..... doctor.  
• Please call ..... Doctor Karim.
- (ii) • My cousin lives near ..... lake.  
• My sister lives near ..... Lake Renuka.
- (iii) • ..... English people I know drink a lot of tea.  
• ..... English people drink a lot of tea.
- (iv) • I like working with ..... people who are honest.  
• ..... people I work with are honest.
- (v) • The most powerful person in India is ..... Prime Minister.  
• ..... Prime Minister Mr Narendra Modi is the most powerful person in India.
- (vi) • He is in ..... prison, awaiting trial.  
• She has gone to ..... prison to visit her father.

(A) Tick (✓) the correct alternative from the following pairs of sentences.

- (i) He is MLA.   
He is an MLA.
- (ii) He is good player.   
He is a good player.
- (iii) Don't make noise.   
Don't make a noise.
- (iv) We should help poor.   
We should help the poor.
- (v) He is brave boy.   
He is a brave boy.
- (vi) He is corrupt man.   
He is a corrupt man.
- (vii) Wait for me at hotel.   
Wait for me at the hotel.
- (viii) I love watching the movies.   
I love watching movies.
- (ix) "Are you Indian?" Sue asked Mr Gupta.   
"Are you an Indian?" Sue asked Mr Gupta.
- (x) I have Egyptian friend named Khalid.   
I have an Egyptian friend named Khalid.

(B) Rewrite the following sentences inserting 'a/an' or 'the' where necessary.

- (i) We live in small flat in Bank Square.  
.....  
.....
- (ii) Sun is star.  
.....  
.....
- (iii) I don't like going to old dentist.  
.....  
.....
- (iv) Giraffe is tallest of all animals.  
.....  
.....

- (v) It was very hot day. Infact, it was hottest day of month.  
.....  
.....
- (vi) We heard news on radio.  
.....  
.....
- (vii) Moon goes round earth every 28 days.  
.....  
.....
- (viii) Dog is animal.  
.....  
.....
- (ix) She married Englishman.  
.....  
.....
- (x) Mohit works eight hours day, 6 days week.  
.....  
.....
- (xi) You are not Eskimo. You don't know what igloo is.  
.....  
.....

(C) Fill in the blanks with correct articles.  
It is hard to believe, but all (i) ..... (a / an / the) famous people we read about, (ii) ..... (a / an / the) famous people from all over (iii) ..... (a / an / the) world, were once children too. Nehru was also once (iv) ..... (a / an / the) child. He grew up in Allahabad where his family had (v) ..... (a / an / the) ancestral house. He loved reading as (vi) ..... (a / an / the) child. He loved birds and animals and had (vii) ..... (a / an / the) most wonderful variety of pets - pandas, peacocks, parrots, doves and tiger cubs in his spacious garden. That sounds like he had (viii) ..... (a / an / the) exciting childhood.