



Home Assignment – May 17, 2020

Class VII

## **English**

**Q1.** Observe any object around you carefully –maybe a book, a cooler, an almirah, a table, a chair, etc. Write a paragraph within 120 words about two good features of the object and *add* four more features you would want in it to augment its quality. Be as creative as you can! ( Eg. you would want your almirah to walk here and there and choose dresses for you , or your refrigerator to be able to stock yummy desserts on its own !)

**Q.2.** ‘All our dreams can come true, if we have the courage to pursue them.’ Have you ever wondered about your parents’ dreams? Interview one of your parents and ask at least 5 questions about their dreams and if they have been fulfilled. Share their inputs within 100 -150 words.

**Q.3.** The world is changing rapidly; some changes are aligned with us and some are not! If you are given a chance of changing some rules of the world, what would they be and why? Express your thoughts in the form of a paragraph of about 150 words.

**Q.4.** Imagine yourself to be an alien who has just landed on planet Earth. You have discovered that the Earth is a very funny place and people do the most amazing and hilarious things! Write a story in about 150 words on how hilarious your experience on Earth has been.

Hints:

- Humans talk to their pets!
- Humans eat more than they require.
- Humans use mobiles a lot even when they are sitting with their family members.

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Class VII

हिंदी

कक्षा -7

हिंदी

दिनांक-16/05/20

**प्रश्न 1.** निम्नलिखित कहानी को पढ़कर पूछे गए प्रश्नों के उत्तर लिखिए -



एक जंगल में एक छोटी -सी ,रंग -बिरंगे पंखों वाली चिड़िया रहती थी। उसकी चहक से सारा जंगल खिल उठता था। सबके साथ उसकी दोस्ती थी और सब उससे बहुत प्यार करते थे। वह बहुत जल्दी दूसरों से घुल -मिल जाती थी, सबके साथ प्यार से बात करती थी। चिड़िया ने अभी-अभी उड़ना सीखा था। आसमान में उड़ने का सोच हर पल उसे लगता जैसे नीला अंबर उसे ही बुला रहा हो। उस जंगल में एक बाज़ रहता था। उसे छोटी चिड़िया एक आँख न भाती। उसका चहकना बाज़ को शोर लगता था , चिड़िया के साथ सब की दोस्ती उसे रास नहीं आ रही थी। वह चिड़िया को दुखी देखना

चाहता था। एक दिन बाज़ जान-बूझकर चिड़िया से लड़ पड़ा और उसने चिड़िया का एक पंख तोड़ दिया। चिड़िया बहुत दुखी हो गई और टूटा पर लेकर बस दिन -रात रोती रहती। बाज़ उसे दुखी देखकर मन- ही - मन मुस्कुराता। जंगल के सारे दोस्त चिड़िया को समझाते ,उसका हौसला बढ़ाते लेकिन चिड़िया के मन में निराशा के बादल छाने लगे थे। एक दिन चिड़िया ने बाज़ को खुशी से उड़ते देखा तो उसने ठान लिया कि वो अपने जीवन को फिर से खुशियों से भर देगी। अब रोज़ वो अपने एक पंख के सहारे उड़ने की कोशिश करने लगी। वह रोज़ असफल होती, अपनी हार देख रोती लेकिन पीछे नहीं हटती। बहुत कोशिश के बाद एक दिन चिड़िया ने अपने एक पंख के सहारे आसमान में ऊँची उड़ान भर ली। यह देखकर बाज़ भी अचंभित हो गया। चिड़िया को एक पर के सहारे उड़ता देख सब खुश हो गए लेकिन वो चिड़िया के एक पर की उड़ान नहीं थी वो तो उसके हौसले की उड़ान थी, जिसने उसे अपनी कमज़ोरी से लड़ना सिखाया था।

- (क) चिड़िया की कोई दो विशेषताएँ लिखिए।
- (ख) बाज़ को किस बात से खुशी मिलती थी ?
- (ग) आपने पिछले पत्रक में शब्द-युग्म की जानकारी प्राप्त की थी।उसी को आधार बनाकर इस कहानी से शब्द-युग्म के दो उदाहरण चुनकर लिखिए।
- (घ) आपको कहानी का अंत कैसा लगा एवं क्यों ?
- (ङ) कहानी के लिए उचित शीर्षक दीजिए ।

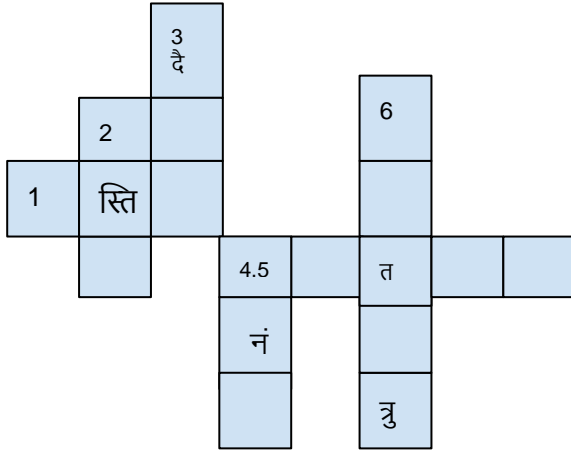
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**प्रश्न 2 .** निम्नलिखित वाक्यों को शुद्ध कीजिए -

- (क) वह लोग आ गए हैं।
- (ख) इन सबों बच्चों ने गृहकार्य नहीं किया।
- (ग) शिक्षिका जी तुमको बुलाई हैं।
- (घ) आज मैंने बाज़ार जाना है।

**प्रश्न 3 .** दिए गए निर्देशों का पालन करते हुए अनेक शब्दों के लिए एक शब्द लिखकर वर्गपहेली पूर्ण कीजिए -

1. जिसका ईश्वर में विश्वास हो (बाएँ से दाएँ)
2. जिसका ईश्वर में विश्वास न हो (ऊपर से नीचे)
3. प्रतिदिन होने वाला (ऊपर से नीचे)
4. जिसका अंत न हो (ऊपर से नीचे)
5. जिसके वास का पता न हो (बाएँ से दाएँ)
6. जिसका कोई शत्रु न हो (ऊपर से नीचे)



- ❖ कल हम सब मेला देखने गए। मेले की सजावट देखते ही बनती थी। ननिहाल से आया आगरेवाला ममेरा भाई और चाची भी साथ थी। वहाँ जादूगर सबका मनोरंजन कर रहा था।

यहाँ सज+आवट, नानी+हाल, आगरे+वाला, मामा+ऐरा, चाचा+ई, जादू+गर में बाद में लगे शब्दांश प्रत्यय हैं। जिनके जुड़ने से धातुओं/मूल शब्दों में परिवर्तन आ गया है।

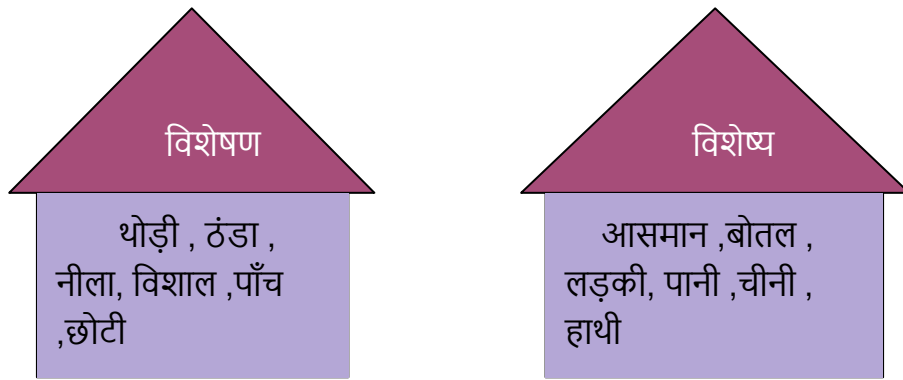


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शब्दों या शब्दांशों के अंत में लगकर उनके अर्थ में परिवर्तन लाने वाले शब्दांश प्रत्यय कहलाते हैं।

**प्रश्न 4.** दिए गए शब्दों से मूल शब्द और प्रत्यय अलग-अलग करके लिखिए -  
दौलतमंद, चमकीला, पतंगबाज़, सम्मानित, रंगीला, महानता

**प्रश्न 5.** नीचे बने एक घर में विशेषण और एक घर में विशेष्य बैठे हैं। आप दोनों घरों में से उपयुक्त शब्द छाँटकर विशेषण-विशेष्य के जोड़े बनाइए -



**प्रश्न 6.** 'अपने लिए जिए तो क्या जिए' इस विषय पर नीचे दिए गए संकेत बिंदुओं के आधार पर 70 से 80 शब्दों में एक अनुच्छेद लिखिए -

- निःस्वार्थ भावना का अर्थ
- स्वार्थ से हानि
- दूसरों की भलाई से आत्मिक सुख की प्राप्ति

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**Mathematics**

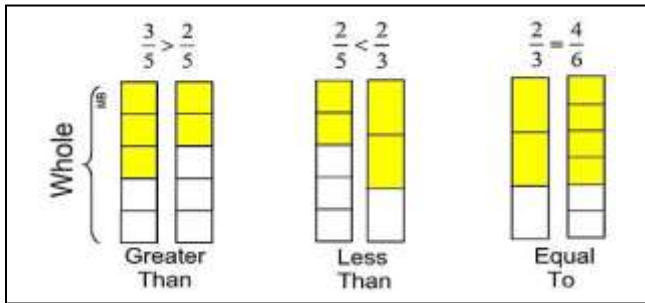
**Topic: Fractions and Decimals**

**General Instructions:**

- I) Do not copy the questions.
- II) Write proper steps and reasons wherever necessary.

**Fractions**

In the previous assignment we discussed comparison, addition and subtraction of fractions.



Greater Than      Less Than      Equal To

$$\frac{3}{8} \times 5 - \frac{1}{10} \times 4 + \frac{7}{20} \times 2 = ?$$

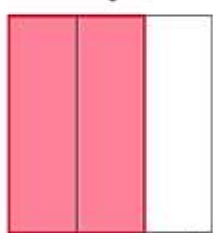
$$= \frac{15}{40} - \frac{4}{40} + \frac{14}{40}$$

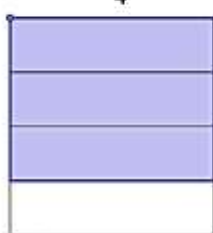
$$= \frac{25}{40} = \frac{5}{8}$$

In this assignment we will study **multiplication** and **division** of fractions.

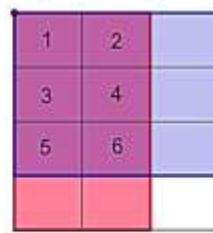
**Multiplication of fractions–** Concept through an **area model**.

Multiplying Fractions with an Area Model

$\frac{2}{3}$   


$\frac{3}{4}$   


Combine the drawings



How many boxes have both colors?  $6$

How many boxes are there?  $12$

$$\frac{2}{3} \times \frac{3}{4} = \frac{6}{12}$$

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In the above model you must have observed that there are basically three simple steps to follow to multiply fractions:

1. Multiply the numerators (*top numbers*)
2. Multiply the denominators (*bottom numbers*)
3. If needed, simplify or reduce the fraction to its lowest form.

Let's go through an example:

**The three steps of multiplying fractions**

Solve:  $\frac{2}{6} \times \frac{9}{16}$


*Step 1. Multiply the top numbers:*

$$\frac{2}{6} \times \frac{9}{16} = \frac{2 \times 9}{16} = \frac{18}{16}$$

*Step 2. Multiply the bottom numbers:*

$$\frac{2}{6} \times \frac{9}{16} = \frac{2 \times 9}{6 \times 16} = \frac{18}{96}$$

*Step 3. Simplify the fraction:*



$$\frac{18}{96} = \frac{6}{32} = \frac{3}{16}$$

$\frac{6}{32}$   
Divided by 3

$\frac{3}{16}$   
Divided by 2

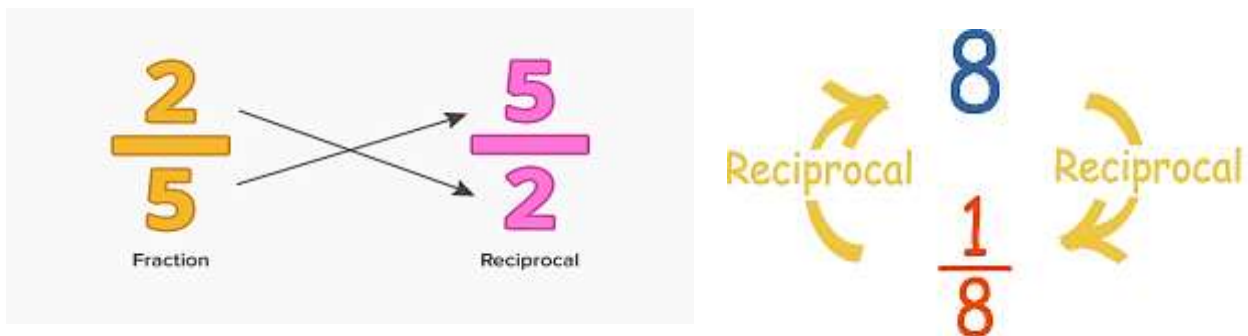
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We can also represent the product like this:

$$\frac{2}{6} \times \frac{3}{16} = \frac{\cancel{2}^1}{\cancel{6}_3} \times \frac{\cancel{3}^1}{16} = \frac{1 \times 1}{1 \times 16} = \frac{1}{16}$$

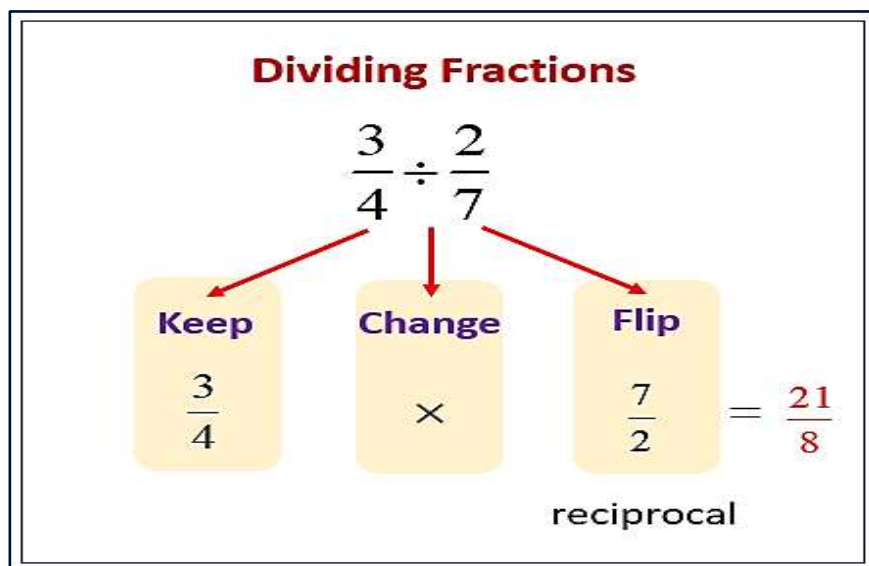
**Reciprocal –**

- Reciprocal of a fraction is obtained by interchanging the numerator and denominator.
- Multiplying a fraction by its reciprocal always gives you one.



**Division of fractions–**

**Rule:** To divide by a fraction, multiply by its reciprocal.



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**Q.1** Simplify the following:

a)  $\frac{2}{9} \times \frac{3}{4}$

b)  $7\frac{1}{2} \times 2\frac{4}{15}$

c)  $\frac{10}{27} \times \frac{39}{56} \times \frac{28}{65}$

d)  $2\frac{2}{17} \times 7\frac{2}{9} \times 1\frac{33}{52}$

**Q.2** Divide:

a)  $14 \div \frac{5}{6}$

b)  $4\frac{3}{7} \div 7$

c)  $3\frac{1}{5} \div 1\frac{2}{3}$

d)  $1\frac{23}{49} \div 15\frac{3}{7}$

**Choose the correct option for Q.3 and Q.4**

**Q.3** What is  $\frac{1}{3}$  of 23?

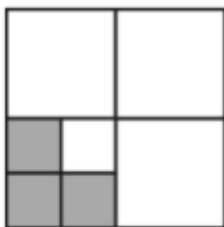
a)  $\frac{1}{69}$

b)  $7\frac{2}{3}$

c)  $23\frac{1}{3}$

d) 69

**Q.4** What fraction of the square below is shaded?



a)  $\frac{3}{4} \times \frac{1}{7}$

b)  $\frac{3}{4} \times \frac{1}{4}$

c)  $\frac{3}{7} \times \frac{1}{7}$

d)  $\frac{3}{7} \times \frac{1}{4}$

**Q.5** Riya takes  $15\frac{1}{3}$  minutes to walk 1 km. How many minutes will she take to walk  $\frac{3}{2}$  km?

**Q.6** A bucket contains  $24\frac{3}{4}$  litre of water. How many  $\frac{3}{4}$  litre jugs can be filled from the bucket to empty it?




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**Decimal Numbers**

In the previous assignment we discussed comparison, addition and subtraction of decimals.

56.8, 17.65, 109.312  $\longrightarrow$  unlike decimals  
 56.800, 17.650, 109.312  $\longrightarrow$  like decimals with three decimal places  
 Ascending order: 17.650 < 56.800 < 109.312  
 Addition:

56	.	800
17	.	650
+ 109	.	312
183	.	762



In this assignment we will study **multiplication** and **division** of decimal numbers.

we

**Multiplication of Decimal numbers –**

**Example:**  $8.74 \times 3.9$

Step1: Multiply the numbers after ignoring the decimal points.

$$\begin{array}{r}
 874 \\
 \times 39 \\
 \hline
 7866 \\
 26220 \\
 \hline
 34086
 \end{array}$$

Step 2: Locate the decimal point.

8.74  $\longrightarrow$  2 decimal places

3.9  $\longrightarrow$  1 decimal place

Total = 3 decimal places

So, Final answer:

$8.74 \times 3.9 = 34.086$   $\longrightarrow$  3 decimal places

**Division of Decimal numbers–**

**Case 1: Dividing a decimal number by a whole number**

**Example:**  $80.75 \div 19$

$$\begin{array}{r}
 4.25 \\
 19 \overline{) 80.75} \\
 \underline{-76} \phantom{0} \\
 47 \\
 \underline{-38} \\
 95 \\
 \underline{-95} \\
 00
 \end{array}$$

$80.75 \div 19 = 4.25$

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**Case 2: Dividing a decimal number by another decimal number**

In this, we will first convert divisor as a whole number by multiplying the dividend and divisor by 10, 100, 1000, etc. according to decimal places in the divisor and then follow steps in case 1.

Example:  $127.875 \div 1.5$

Here divisor = 1.5  $\xrightarrow{\hspace{2cm}}$  1 decimal place

So multiply dividend and divisor by 10.

$$\frac{127.875}{1.5} = \frac{127.875 \times 10}{1.5 \times 10} = \frac{1278.750}{15} = \frac{1278.75}{15}$$

$$\begin{array}{r} 85.25 \\ 15 \overline{) 1278.75} \\ \underline{-120} \phantom{0} \\ 78 \phantom{0} \\ \underline{-75} \phantom{0} \\ 37 \phantom{0} \\ \underline{-30} \phantom{0} \\ 75 \\ \underline{-75} \\ 00 \end{array}$$

$$127.875 \div 1.5 = 85.25$$

**Q.7** Multiply:

a)  $4.74 \times 10$

b)  $2.018 \times 100$

c)  $15.74 \times 1000$

**Q.8** Divide:

a)  $21.78 \div 10$

b)  $5.46 \div 100$

c)  $132.5 \div 1000$

**Q.9** Find the product:

a)  $9.2 \times 6.07$

b)  $0.018 \times 0.74$

c)  $28.73 \times 37$

d)  $1.72 \times 0.56$

**Q.10** Find the quotient:

a)  $30.15 \div 3$

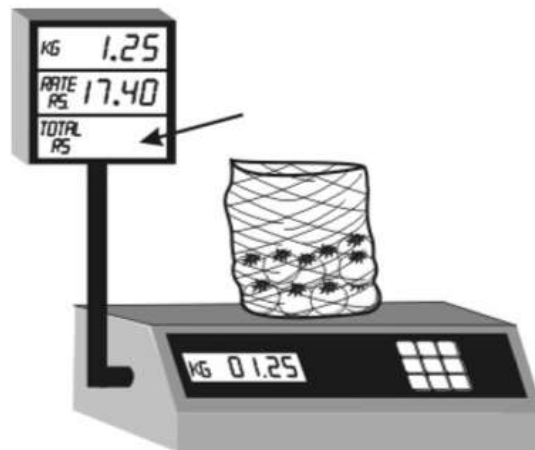
b)  $8.28 \div 12$

c)  $58.225 \div 2.5$

d)  $6.9168 \div 5.24$

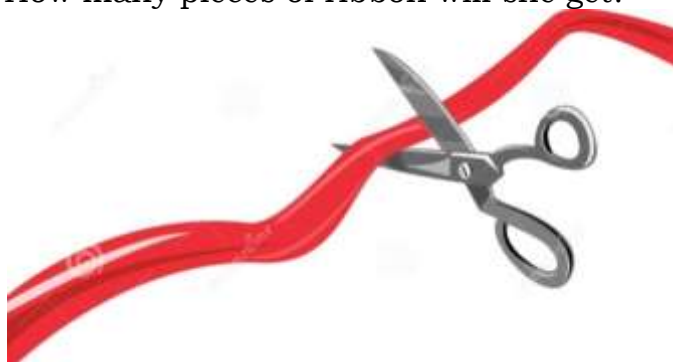
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**Q.11** Mita bought some tomatoes from a vegetable shop. The vendor placed the tomatoes on the weighing machine and then entered the rate per kg of tomatoes. The weighing machine then showed the weight of tomatoes (in kg) and the rate per kg of tomatoes (in ₹) as shown below:



What amount will be displayed on the screen marked 'Total ₹' once the vendor presses the 'enter' key, and the machine calculates the total price?

**Q.12** Rima cut a 12 m long ribbon into several equal pieces such that the length of each piece is 0.75 m. How many pieces of ribbon will she get?



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**ACTIVITY**

**Cooking Fun**

Anna is going to make some cookies for a bake sale. The recipe that her mom gives her needs to be quartered before she starts baking. Help Anna to quarter the recipe by doing the following:

**Step#1:** If necessary, rewrite the given amount shown as a fraction.

**Step#2:** Multiply the fraction by  $\frac{1}{4}$  to quarter the recipe.

**Step#3:** Simplify and write each ingredient in the lowest form.



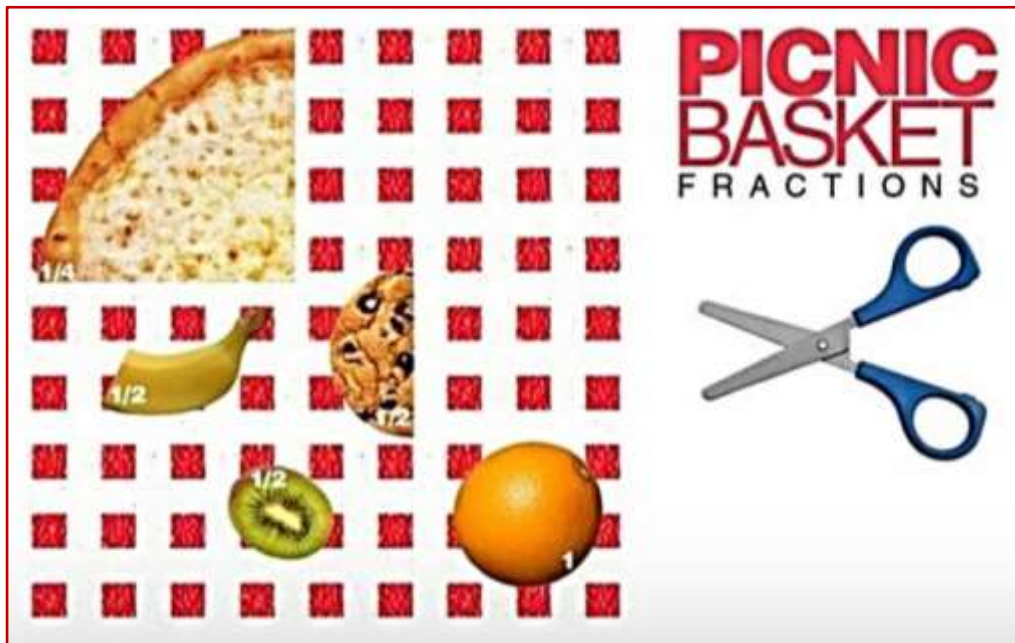
<b>MONSTER COOKIES</b>	
4 cups sugar	$4 \times \frac{1}{4} = \frac{4}{4} = 1 \text{ cup sugar}$
1 dozen eggs (12 eggs)	
4.5 cups brown sugar	
1 tsp. salt	
$\frac{1}{4}$ cup pure vanilla extract	
8 tsp. baking soda	
18 cups oatmeal	
$6\frac{3}{4}$ cups creamy peanut butter	
2 cups shortening	
3 cups chocolate chips	
$3\frac{1}{3}$ cups M & M's candies	

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**PROJECT**

**ENJOY A FRACTION PICNIC** – Design a paper plate for picnic with a variety of fractional food items.

Plan a picnic and choose the food you want to take along. You may draw or take food images from some magazine. Use scissors to cut portions of your food choices and glue them to a paper plate. Finally label each item with the fraction name.



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**Science (Biology)**

**Topic : Nutrition in plants**



Let us recall...

- Q.1** What are the four conditions necessary for photosynthesis to occur in green plants?
- Q.2** During the process of photosynthesis, which gas is given out by plants into the environment?
- Q.3** What is the source of energy for photosynthesis to occur?
- Q.4** In what form is the food prepared by the leaves stored in different parts of the plant?



**Think and answer**

- Q.5** What will happen if green plants fail to photosynthesize?
- Q.6** How does the process of photosynthesis maintain the level of gases in the atmosphere?
- Q.7** Do you agree that photosynthesis can also occur in green young stems other than leaves?



**HOTS Questions**

- Q.8** How will find out whether photosynthesis has taken place in a leaf or not?
- Q.9** Your body has carbon dioxide and water and is also exposed to sunlight, still it can't make food as plants do. Explain this phenomena with a proper reason.



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Did you know?

Photosynthesis is a chemical reaction that takes place in green parts of a plant. Since the synthesis of food occurs in presence of sunlight, it is called photosynthesis ( photo= light; synthesis= combination of components)



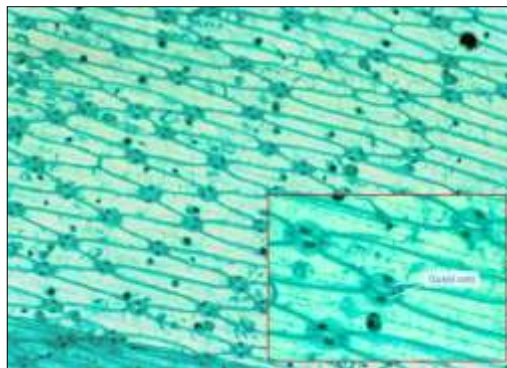
### Question of the day

Though Carbon dioxide is present in the air and water is present in the soil, then how do these raw materials reach the site of photosynthesis i.e. leaves?



### Let's Explore

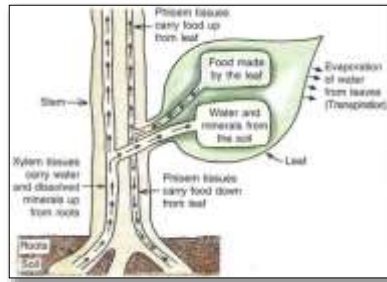
**Q.10** Given below is the picture of tiny openings normally present on the underside of the leaves. Identify them and explain their role in the process of photosynthesis.



**Q.11** What will happen if we coat the upper and lower sides of leaf attached to the plant with Vaseline?

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**Q.12** Observe the diagram given below and try to figure out how water from soil reaches the leaves.



- Which part of the plant absorbs water from the soil?
- How is absorbed water conducted in the plant body?

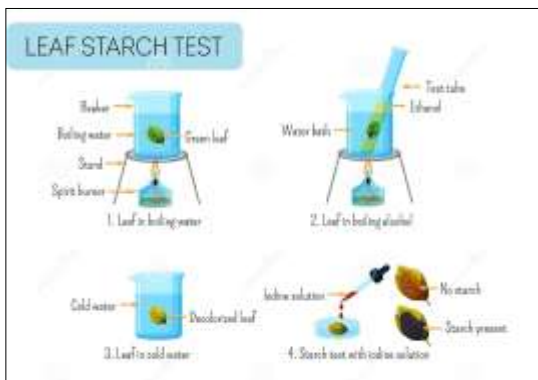
**Get it right**

Root hair are the sites of water absorption. They are tiny, hair-like structures that grow on the surface of the plant roots. Their main function is to increase the area available for water absorption and that of minerals and other nutrients.

**Q.13** What happens to the food prepared by the leaves?



**A Laboratory tour**



In the above experiment a leaf is tested for presence of starch. Answer the following questions on the basis of above experiment.

- Q.14**
- Why is it important to boil a leaf initially in water and then in alcohol?
  - Why is iodine used to test the presence of starch?

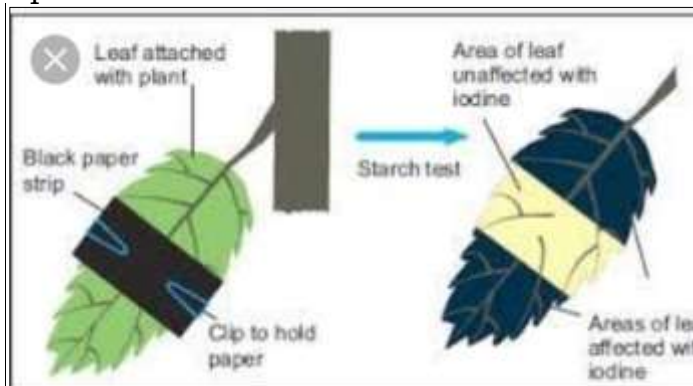


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**Q.15** If we perform starch test on the detached leaf shown alongside, what observations would you make and what would you conclude from the observations?



**Q.16** The picture given below shows the observation made when a leaf partially covered with black strip was tested for starch. What conclusions would you draw from the experiment?



Stay curious: Watch this video on photosynthesis

<https://www.youtube.com/watch?v=pFaBpVoQD4E>



### **Points to ponder**

Do colored leaves also photosynthesize?

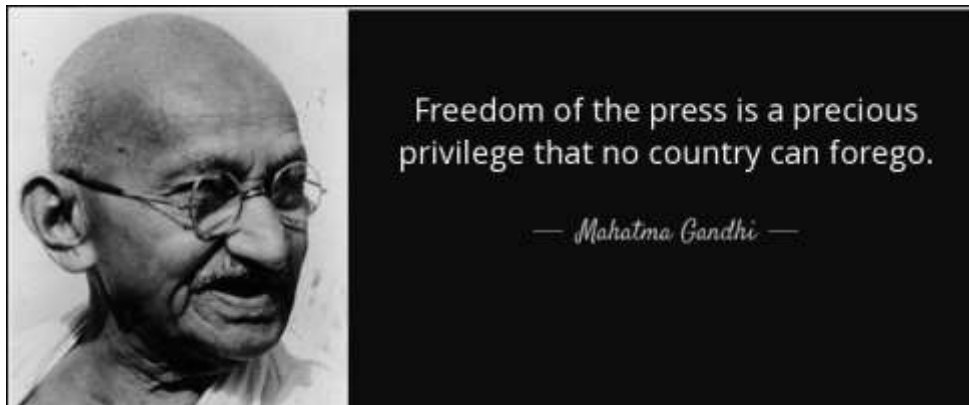
Can leaves photosynthesize in artificial light?

Research and find out.

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**Social Science**

**Topic : Media and Democracy**



**Q.1 Multiple Choice Questions ( MCQs )**

a) Which one of the following means of communication is an example of electronic media:

- i) Magazines
- ii) Newspapers
- iii) Television
- iv) Weekly papers

b) The form of media that reaches millions of people across the country and the world is called :

- i) Print media
- ii) Mass media
- iii) Telephone
- iv) All of these

c) Which of the following aspects play an important role in democracy:

- i) Providing information
- ii) Creating public opinion
- iii) Forum for discussion
- iv) All of these

d) The main source of income for the mass media is :

- i) Donations
- ii) Relief funds
- iii) Advertisements
- iv) Publication houses

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**Q.2** Read the passage carefully and answer the questions that follow:



*Media plays a significant role in democracy. It provides us complete and latest information about the important events taking place around us. It is through media that we are able to know about the working of government for the welfare of its citizens. Media and democracy are complementary to each other. Media keeps a close eye on democracy and provides a forum for discussion and debate on various social, economic and political issues.*

- i. What is understood by the term 'Media'?
- ii. Why is media called the 'Watchdog of Democracy'?
- iii. How does the media empower the common man in a democracy?
- iv. Newspapers are often called the 'Lighthouse of Democracy'. Justify the statement

**Q.3** Thinking Beyond

Democratic governments have to be accountable to the citizens. In India, this accountability of the government is ensured by giving the "Right To Information" to the people.

- i. When was the Right To Information Act passed by the government?
- ii. What was the main objective for passing this act ?
- iii. State the main provisions of this Act.



**Q.4** Media is not entirely independent in our country. The government uses censorship to control the contents published and shown by the media. In general, however, the government confines itself to the censorship of films.

- i. What do you understand by the term 'censorship'?
- ii. Do you think censorship of films by the government is justified ? Give reasons for your answer.

