



# Holiday Homework 2018-19

## Grade 7



# **SOCIAL STUDIES**

## **TOPIC: Voyage of Rivers**

**Students will do the research work on any one of the following river of their choice.**

**This research will make you understand the importance & significance of rivers in our lives and their history.**

### **India--Ganges, Brahmaputra, Narmada and Yamuna**

**Powerpoint presentation—should include the following topics.**

- River pictures.**
- Picture essay on a river of your choice**
- Economic and social issues related to the river and impact of modern day changes on sustainable development of places located around rivers.**
- Poem on voyage of rivers.**
- Imagine yourself a quiz master of a popular TV show . Prepare a set of 10 questions on a river of your choice to conduct the quiz competition.Include the questions in your presentation.**

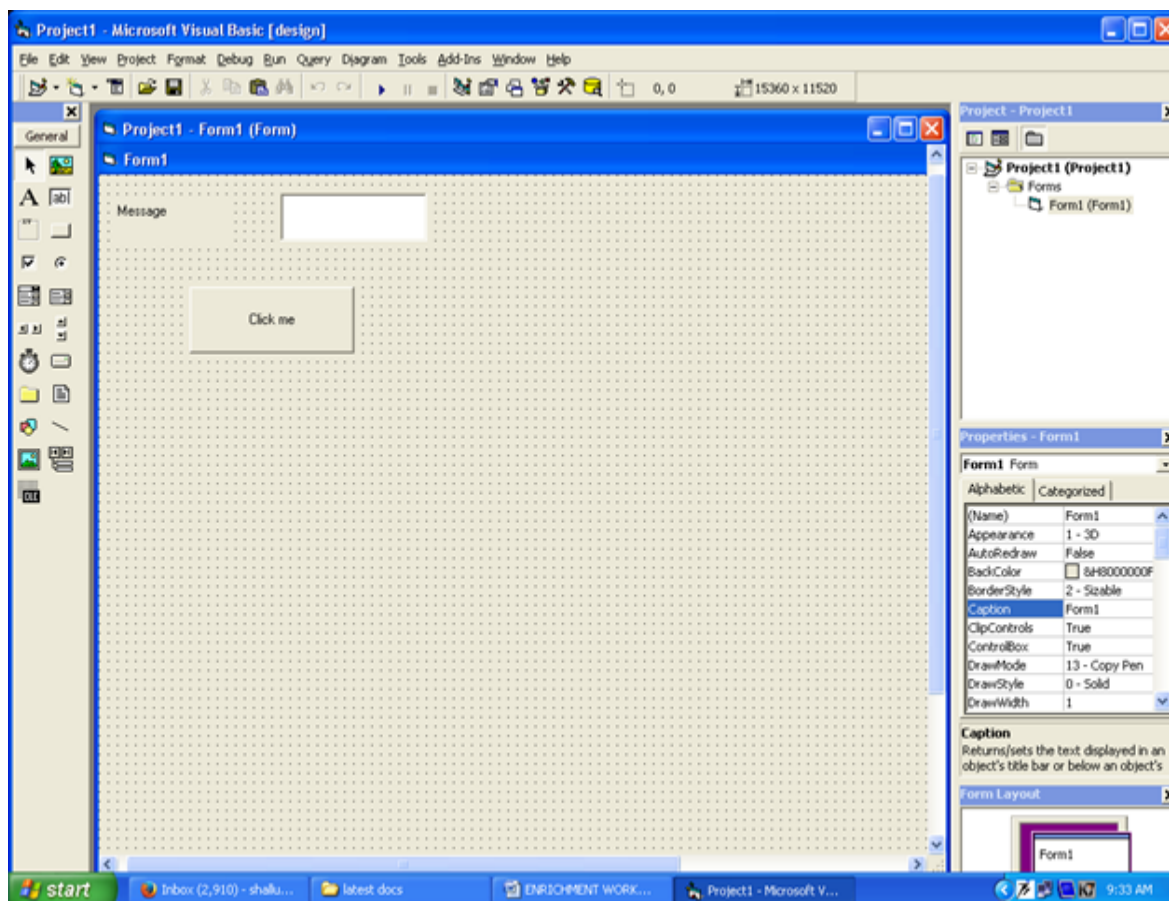
# ICT

## Projects on QBASIC & VISUAL BASIC

### PROJECT-1 VISUAL BASIC

**Write the code for the following questions in VISUAL BASIC-**

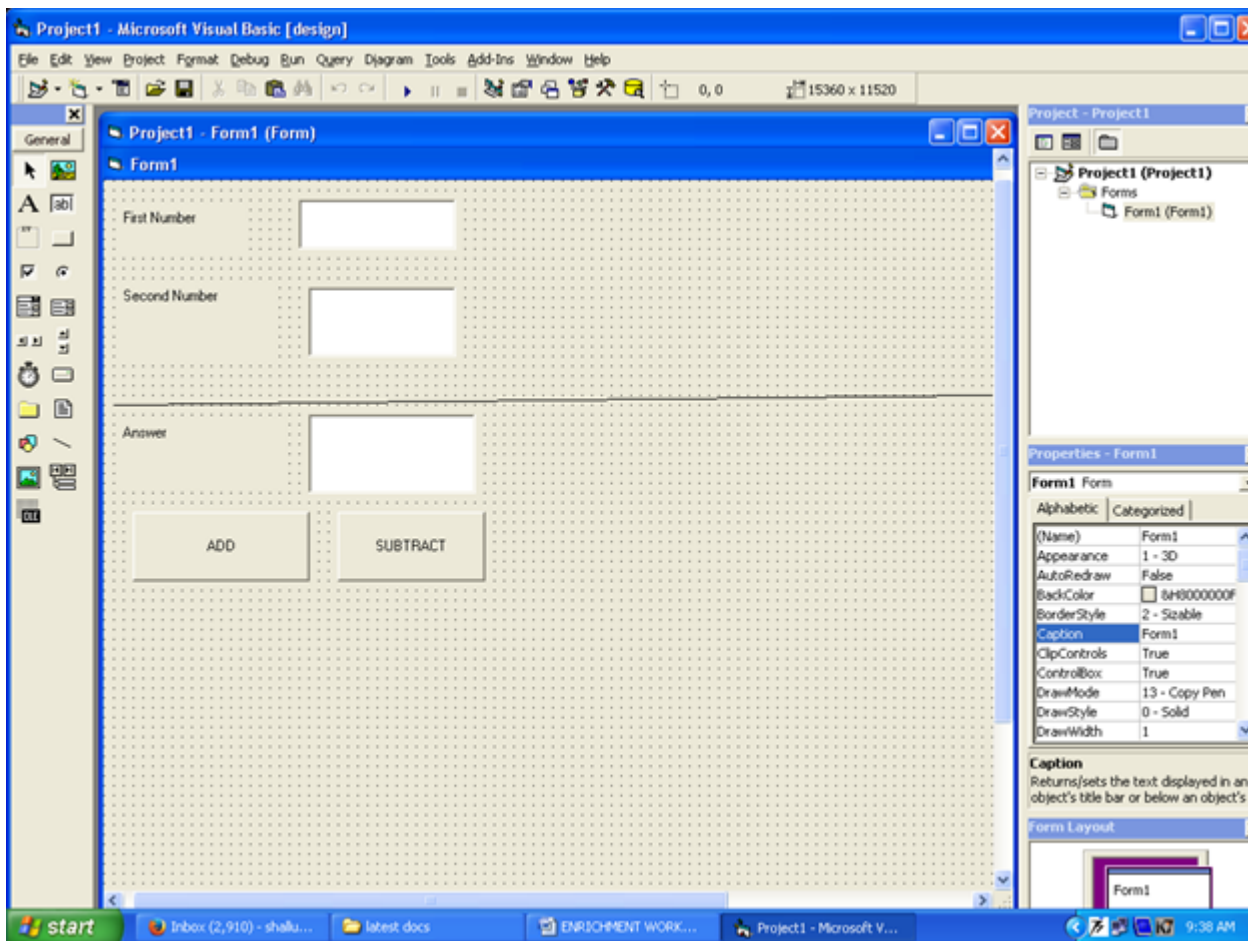
**Q1 Design an application that will display a Form with the following controls.**



**Write the code for the following:**

The user is allowed to enter a message in the Text box and whenever the Clickme button is clicked it should display the message in a MsgBox.

**Q2 Design an application that will display a Form with the following controls.**



**Write the code to calculate the sum and difference of the two numbers.**

**Q3 Design an application that will display a message “Visual Basic is a programming language graphically when clicked to a control naming “Visual Basic”.**

**Q4 Design an application where a radius is entered and area of circle is displayed.**

**Q5 Design an application to find the area of Triangle, Rectangle, Square using Labels, Command Buttons and Textboxes**

## **PROJECT-2 QBASIC**

**Write the code for the following questions in QBASIC-**

**Q1 Write a program in QBasic to draw ten concentric circles where the radius is specified using a For-Next loop.**

**Q2 Write a program in QBasic to draw a rectangle using Draw command.**

**Q3 Write a program in QBasic to draw a circle in red color using the Circle command.**

**Q4 Write a program in QBasic to display a group of three concentric circles in red, blue and green color using the Circle command.**

**Q5 Write a program in QBasic to draw a circle in yellow background in red color using the Circle command.**

# ENGLISH

**ASSIGNMENT 1: Read the Novel 'Ghost Stories' prescribed in the syllabus.**

- **Which story did you like the most and why? Write an article in about 100-150 words.**
- **Choose another story from the same novel and bring about a very surprising twist at the end of the story. (word limit 50-80 words)**

**ASSIGNMENT 2: Write a story on the following topic in about 200-250 words:**

**'You're driving on a country road. It is late at night. You are far from home. You realize, as you check your mirror, there is a man whom you do not know, hiding on the floor of your back seat.....'**

# ESL

1. Write a letter to invite your friend to your brother's wedding.
2. Write a letter to the Municipal Officer demanding a Garbage Bin your area.
3. Cruelty to animals is growing day by day due to human greed. This is not good for the ecosystem. Animals too are a part of our life. You have been asked to write an article 'Live and Let Live' in order to create awareness. You is Rohit.
4. Your friend wastes a lot of time on social media .Write an email advising him not to do so.
5. Write a Diary entry sharing your views and experience of trip to Amritsar.
6. Complete all the assignment given to you. Do the writing skills of the assignment on a separate A4 sheet of paper neatly.
7. Make a dictionary of the following words:  
Gauge, tragedy , prejudice, woeful, probe, malicious, crippled, authoritative, sumptuous, stern, fatigue, anguish, remorse, sturdy, miniature, experience, primitive, magnificent, confinement, flattering, vigil, exploiting, disorderly, hurdle, chaos, backbiting, cuddle, browse, apprehend, applaud, trudge, morsel, verge  
  
Learn the spelling and meaning of each word. Create a colourful dictionary using chart paper. Give the meaning and usage of each word with the help of a sentence. (Size of the dictionary-6 inches x 6 inches).
8. Read Harry Potter and the Chamber of Secrets well. On an A4 sheet of paper, draw a sketch of your favourite character .and write why you like him/her. Also write what you have learnt from the book. (125-150 words)

Place your entire homework in a folder.

# HINDI

- स्वस्ति व्याकरण से 'वाक्य और इसके भेद' विषय पर अभ्यास कीजिए ।
- सर्दी की ऋतु का आनंद या 'मेरे जीवन का लक्ष्य' विषय पर अनुच्छेद लिखिए ।
- व्याकरण के किसी एक विषय पर एक पोस्टर तैयार कीजिए ।
- निम्नलिखित कठिन शब्दों के अर्थ लिखिए :- मराठी ,पहाड़ी, द्रव्यवाचक, परिवर्तन ,  
मातृत्व, सुरक्षित ,आविष्कार, इतिहास ,अनुशासन, फलस्वरूप, निश्चित ,विनाश,अभिमान  
,दृष्टिकोण ,विस्तार ,कलंक ,संवेदनशील ,आर्थिक,आराधना ,
- गृहकार्य booklet form में submit करे



# SCIENCE

## Chemistry

1. In winter, a pond freezes over, but usually the ice is only formed on the surface. Fish go deeper where the water is still warmer. Explain the following -

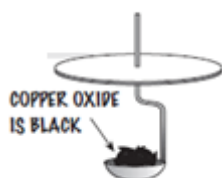
The ice at the surface can be less than  $0^{\circ}\text{C}$ , but the water below stays liquid.

.....

.....

.....

2. If you take a piece of copper and heat it strongly, it will get a black coating. It will also have a red substance on it. Both these are a form of copper oxide with different compositions. However, copper does not burn.



a. What is burning?

.....

b. How can we recognize it?

.....

c. Write the word equation for the reaction between copper and oxygen.

.....

3. Compounds made up of only 2 elements are called binary compounds. The name of a binary compound ends in 'ide'.

Complete the following -

a. Aluminium + chlorine  $\rightarrow$

.....

b. Sodium + oxygen  $\rightarrow$

.....

c. Iron + Sulphur  $\rightarrow$  .....

4. Write the names of the elements the following compounds have been made from.

- a. Zinc oxide is made from - .....
  - b. Copper chloride is made from - .....
  - c. Magnesium nitride is made from - .....
  - d. Sodium hydride is made from - .....
5. Which of the following conditions will lead to rusting? Circle the correct option.

<i>Compound</i>	<i>Elements in it ?</i>
<i>Carbon Monoxide</i>	
<i>Magnesium Chloride</i>	
<i>Water</i>	
<i>Sodium Chloride</i>	
<i>Calcium Carbonate</i>	

- a. Iron tongs left in a box.
  - b. Iron tongs in oil.
  - c. Iron tongs kept in a container with moisture absorbing chemical.
  - d. Iron tongs in a container without oxygen.
1. Circle the chemical reaction.
6. Why is the following a chemical reaction.

*Making toast*

*Boiling water*

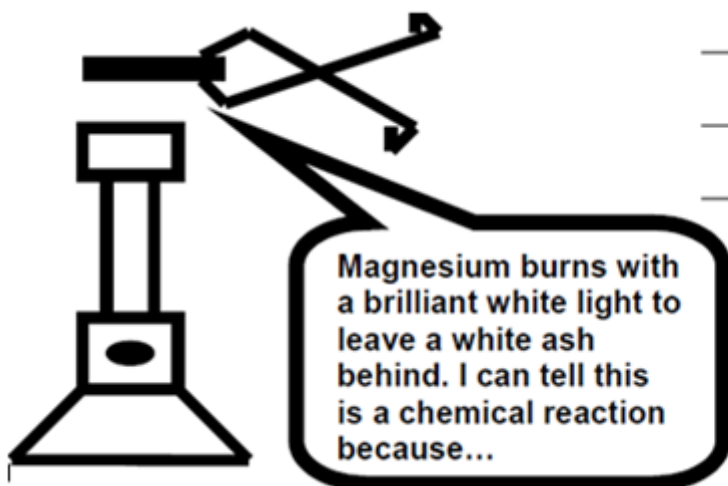
*Frying an egg*

*Taking a photograph*

*Metal + acid*

*Making Ice-lollies*

7. Why is the following a chemical reaction.



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8. Complete the following

Copper → \_\_\_\_\_

Iron → \_\_\_\_\_

Aluminium → \_\_\_\_\_

Tin → \_\_\_\_\_

# **BIOLOGY**

**NOTE -**

**Home work is divided into 2 parts -**

**a. Making a power point presentation on topic given. Refer to the text book and research.**

**b. Written assignment**

**The assignment sheets should be pasted in notebook.**

**The assignments should be brought on the first working day.**

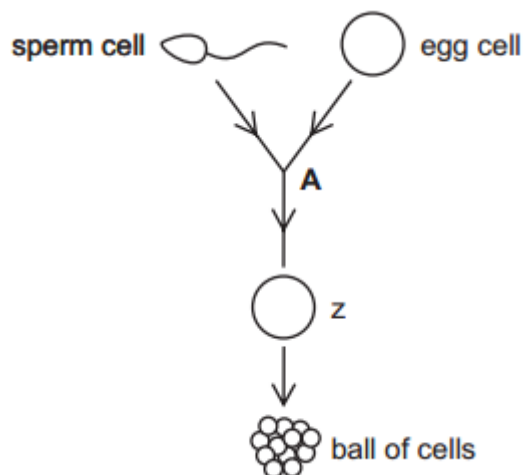
**a. POWER POINT PRESENTATION**

<b>Topic</b>	<b>Roll number</b>	<b>Sub topic</b>
<b>Diet</b>		
	<b>1 -2</b>	<b>Conception and development in womb</b>
	<b>3-5</b>	<b>Growth &amp; development in young people</b>
	<b>6 - 8</b>	<b>Behavior, general health, malnutrition &amp; starvation, obesity</b>
<b>Drugs</b>		
	<b>9-10</b>	<b>Conception and development in womb</b>
	<b>11 - 13</b>	<b>Growth &amp; development in young people</b>
	<b>14 - 16</b>	<b>Behavior, general health, treating and preventing drug abuse</b>

<b>Disease</b>		
	<b>16-17</b>	<b>Conception and development in womb</b>
	<b>20 - 21</b>	<b>Growth &amp; development in young people</b>
		<b>Behavior, general health</b>
	<b>22 - end</b>	<b>Fighting diseases, development of immunization</b>

a. WRITTEN ASSIGNMENT

1. The diagram below shows the gametes in humans.



a. From the figure above –

i. Name a diploid cell .....

ii. State and explain the term to describe what happens at A .....

.....

iii. What is shown at Z?

.....

b. Cell division of the zygote produces a ball of cells.

Describe in detail where in the female reproductive system this ball of cells is positioned for the next stage of development.

.....

.....

1. A woman has menstrual cycle every 28 days.

a. Put the statements in the correct order.

Statement	Order
Ovulation occurs	
The level of female hormones drop quickly	
Inner lining of the uterus is lost as menstrual blood	
The egg travels from the ovary to the uterus	
A new egg starts to develop in the ovary	

b. What happens to the egg cell if the egg is fertilized by the sperm cell?

.....

c. If the egg is fertilized, a foetus can develop in the female reproductive system.

i. Where does the fertilization occur? Circle the correct answer.

OVARY

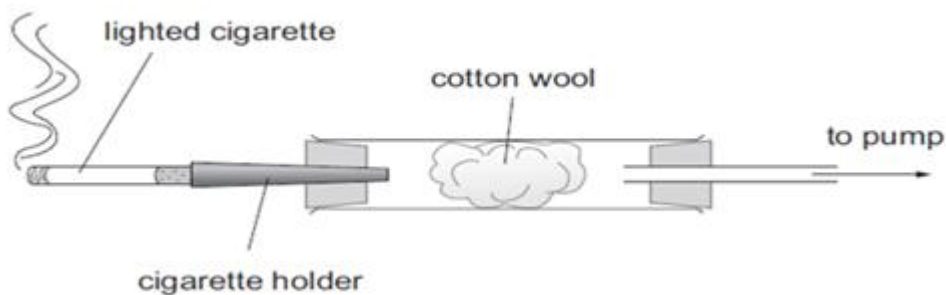
OVIDUCT

UTERUS

ii. Where does the foetus develop?

.....

1. The effects of smoking can be demonstrated as follows.



a. Describe what happens to the cotton wool during the demonstration?

.....

b. Why does the above happen?

.....

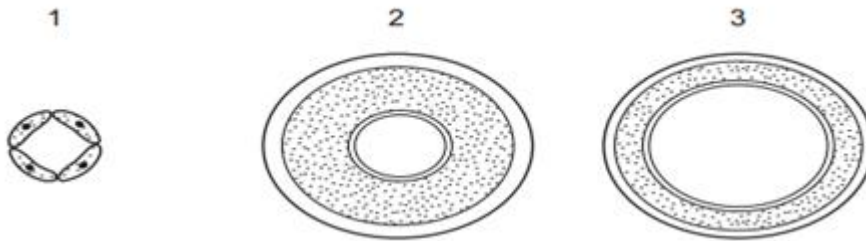
c. Which part of the body does the cotton wool represent?

.....

d. Describe one effect of smoking on health.

.....

1. The diagram below shows the section of the three types of blood vessels found in human body.



- a. Name the above blood vessels.

.....

- b. Give one visible feature of the above blood vessels that helped you to identify them.

.....

.....

2. Using the words given below, complete the paragraph to describe how the student's body changes as she exercises.

*CARBON DIOXIDE*      *DEEPER*      *FASTER*      *GLUCOSE*  
*GLYCOGEN*      *RESPIRATION*      *RUNNING*      *SHALLOWER*  
*SLOWER.*

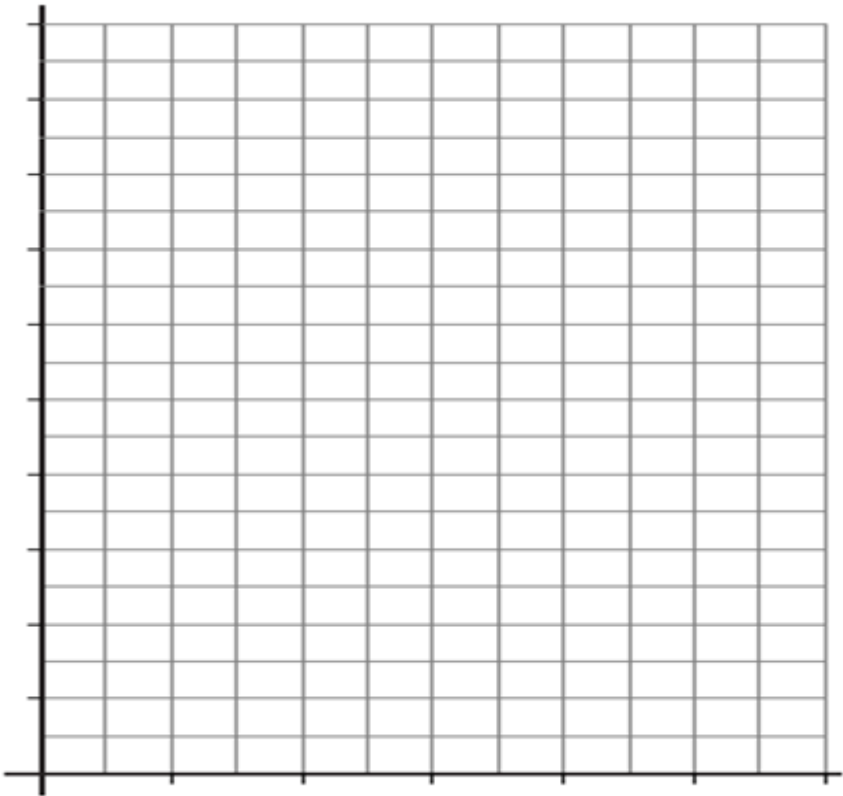
The student needs more energy for her leg muscles to contract, so the rate of  
..... increases in her muscle cells. Her blood supplies more oxygen and  
..... to her muscle cells and removes more .....  
To do this the student's heart beats at a ..... rate.



1. A student records her observation to show that there is a relation between exercise and pulse rate.

type of exercise	pulse rate /beats per minute
resting	74
walking slowly	87
walking quickly	116
running	163

a. Draw a bar graph to show her result. Do not forget to add labels.



b. The student also observed that on several instances during exercise, he had developed severe muscle pain. Give the reason for this pain and what should be done by the student to relieve the pain.

.....

.....

# PHYSICS

Q1

A student directs a ray of light towards a plane mirror, as shown in Fig. 8.1.

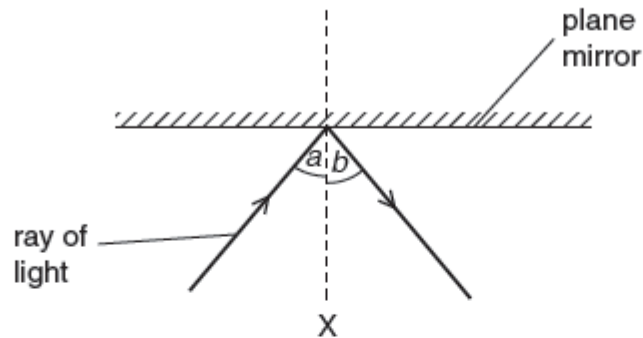


Fig. 8.1

- (a) (i) Name the line labelled X.

.....[1]

- (ii) When angle  $a$  is  $45^\circ$ , angle  $b$  is also  $45^\circ$ .

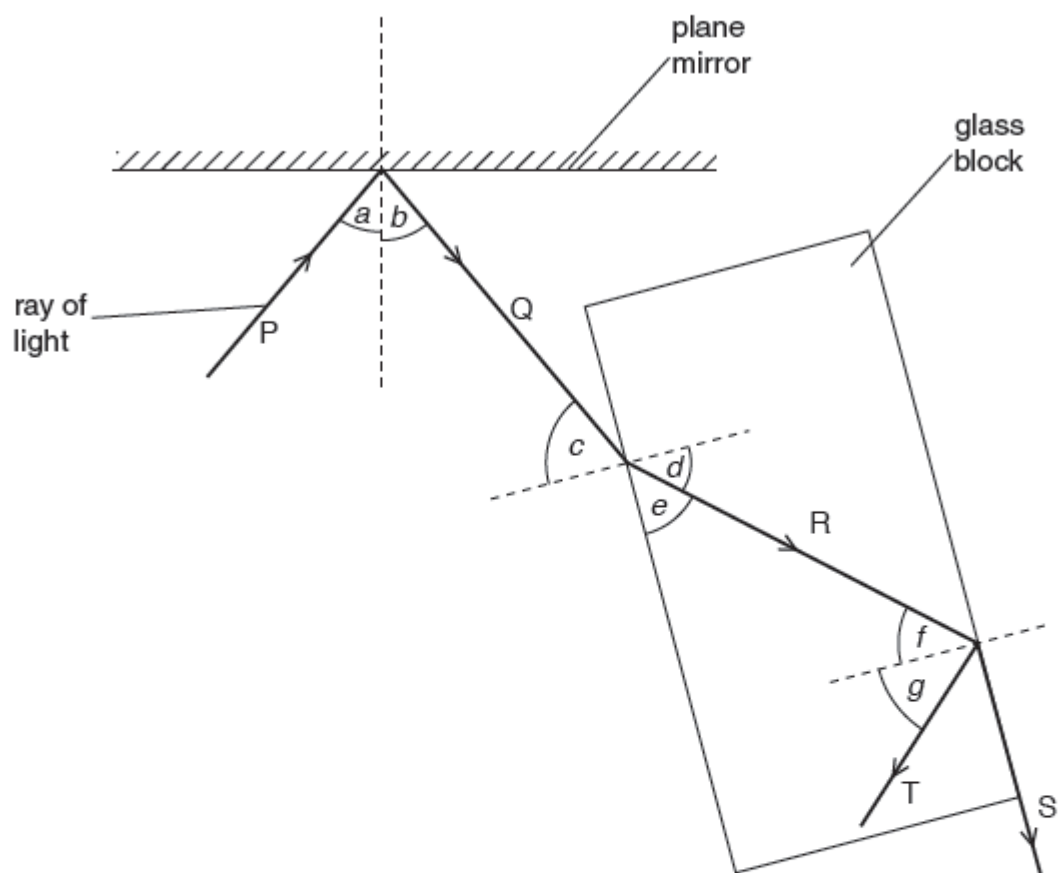
Angle  $a$  is changed to  $20^\circ$ .

What is the new value of angle  $b$ ? Tick **one** box.

$20^\circ$  ☐       $25^\circ$  ☐       $45^\circ$  ☐       $65^\circ$  ☐       $80^\circ$  ☐

[1]

- (b) The student now makes the ray of light from Fig. 8.1 pass into a glass block, as shown in Fig. 8.2.



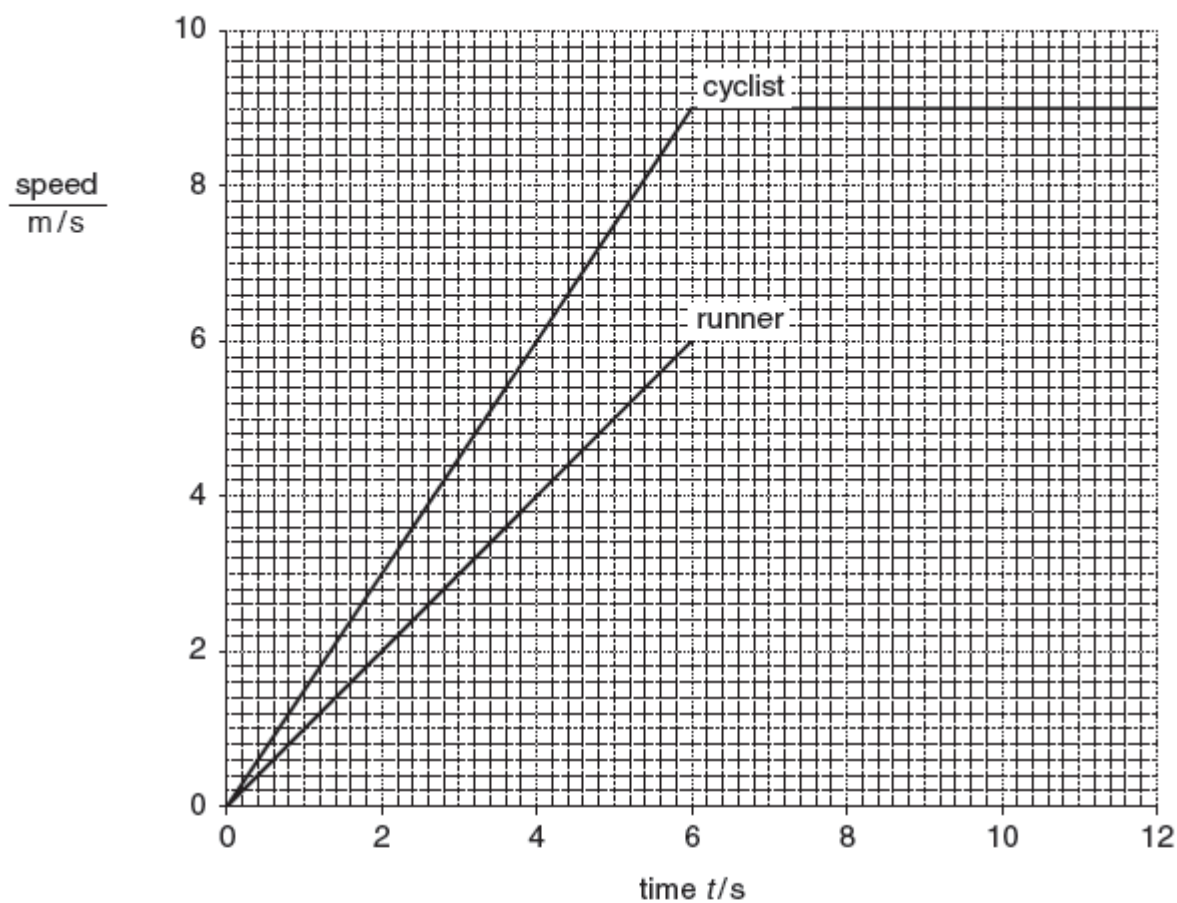
**Fig. 8.2**

Complete the table, using the labels from Fig. 8.2. The first label is done for you.

description	label
an angle of incidence	<i>a</i>
an angle of refraction	
an internally reflected angle	
a critical angle	
a refracted ray	

**Q 2**

Fig. 1.1 shows part of the speed-time graphs for a cyclist and for a runner.



**Fig. 1.1**

- (a) Compare the motion of the cyclist and the runner during the first 6 seconds. Explain your answer.

.....  
.....  
.....  
.....[3]

- (b) Describe the motion of the cyclist between time  $t = 6.0s$  and time  $t = 12.0s$ .

.....[1]

**Q 3 Make a project to demonstrate an application of Reflection.**

# **FRENCH**

- 1. Make a paper bag and the theme of designs will be: French Monuments, French brands and French food. Choose only one theme.**
- 2. Make a small chart on a A3 size sheet and can choose any of these three topics:**
  - Draw body parts and label them in French**
  - Draw different buildings and label them in French**
  - Draw means of transports and label them in French.**
  - Draw the objects (furniture) you find in your house and label them in French.**
- 3. Revise the topics done in the class.**

# GERMAN

1. Make a New Year Card in German. Lines should be written only in German.

2. Deutschsprachige Länder : Essen, Marken und Feste

Make a Project in a file of about 10-15 Pages on A4 size coloured paper on German speaking regions i.e Germany, Austria, Switzerland. Make it colourful and creative using plenty of pictures.

Write ups should be written in German.

The following points are:

Spezialitäten: food specialities of the countries e.g. Currywurst, black forest cake, German sausages  
Marken: well known brand names (trademarks) (what, where, when, how) e.g. Adidas, Audi, BMW, Volkswagen, Nivea  
Feste: Celebrations or festivals of various regions e.g.

Weihnachten (Christmas) Ostern (easter) Silvester (New Year) Oktoberfest, Fasching (Carneval)

3. Make a PPT on Dachau Concentration Camp. It should contain 20 slides.

# SPANISH

Make flash cards of seasons or weather.  
(At Least four cards is to be made)

# MATHEMATICS

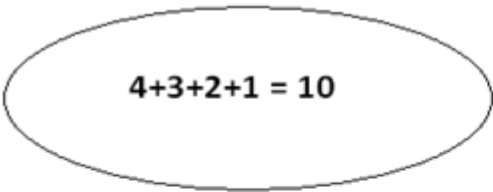
**NOTE:**

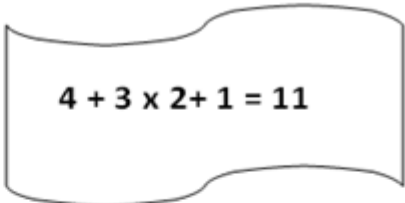
Ensure that the work is done on A4 size sheets and is in neat handwriting.  
(Do not use your Maths. fair notebook for this assignment.)

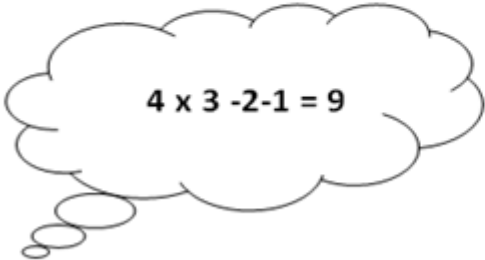
**Section A**

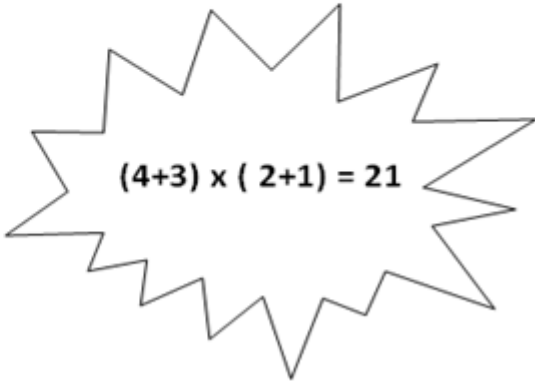
1. All these calculations contain the numbers 4, 3, 2 and 1, in that order.

Addition, subtraction, multiplication and brackets have been used to make the results 9, 10, 11 and 21.


$$4+3+2+1 = 10$$


$$4 + 3 \times 2 + 1 = 11$$


$$4 \times 3 - 2 - 1 = 9$$


$$(4+3) \times (2+1) = 21$$

(a) How many different results can you make using only addition, subtraction, multiplication and brackets?

(b) Now reverse the order to 1,2,3,4. Can you make more results than before, or fewer?

2. A measuring cup has lines marking the fractions  $\frac{1}{2}$   $\frac{1}{3}$   $\frac{1}{4}$  and  $\frac{3}{4}$  of a cup. In what order should the lines on the cup be labeled, starting with the bottom line of the measuring cup?



3. Frank and Joey ordered a large pizza. Frank ate 30% of the pizza and Joey ate  $\frac{2}{5}$  of the pizza. What percentage of the pizza did they eat in all?

4. A box contains 20 computer discs.  $\frac{1}{5}$  of the discs are used.

(i) Write  $\frac{1}{5}$  as a decimal.

(ii) Write  $\frac{1}{5}$  as a percentage.

(iii) Work out how many discs are used.

5. (i) Order the decimals from least to greatest.

4.23, 4.09, 4.8, 4.13, 4.2, 0.999

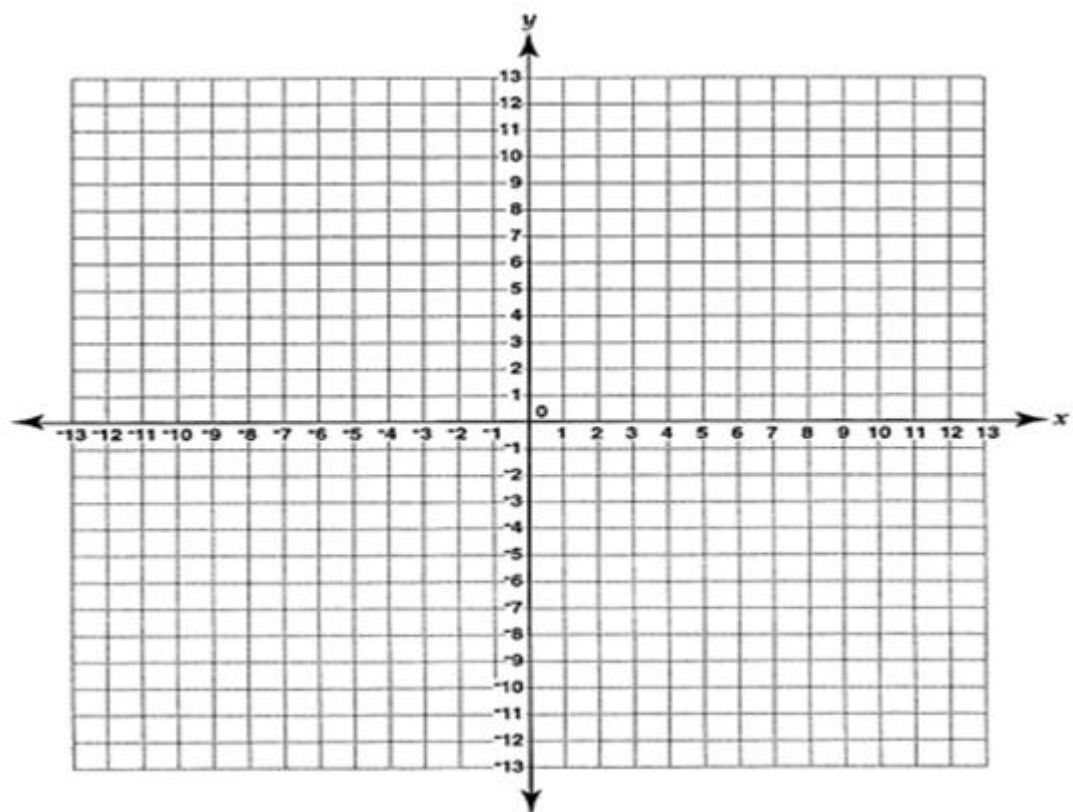
(ii) Order the set from greatest to least: 0.69,  $\frac{12}{25}$ ,  $\frac{17}{50}$ , 72%, 0.83

6. Plot the following straight lines on the grid: (Complete table of values for both the equations.)

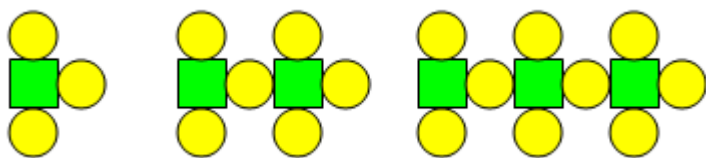
(i)  $y = 2x + 1$  (ii)  $y = x - 1$

x			
y			

x			
y			



7. What comes next? Draw the next term and complete the grid.



No. of term	1st	2nd	3rd	4th	5th	6th	7th
Squares	1	2	3				
Circles	3	6	9				

8. Haider counted the number of sweets in 20 packets.

The table shows information about his results.

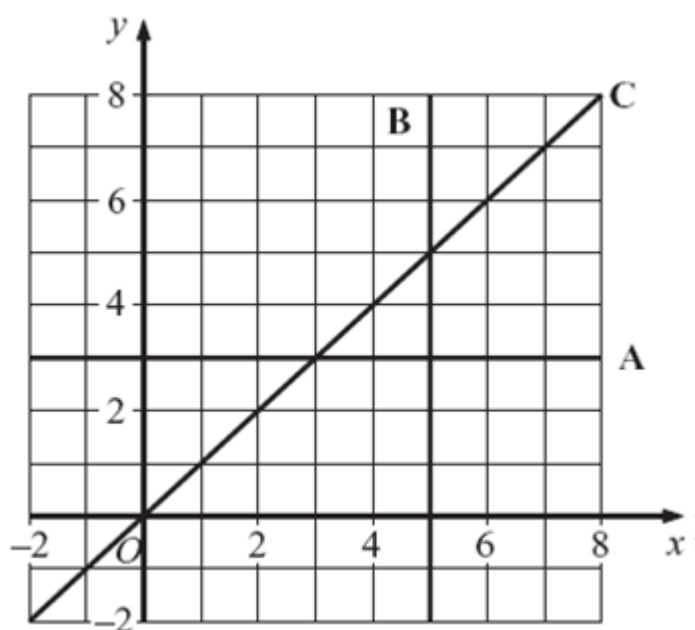
Number of sweets	Frequency	Number of sweets $\times$ Frequency
46	3	
47	6	
48	3	
49	5	
50	2	
51	1	

- (a) What is the mode number of sweets?
- (b) Work out the range of the number of sweets.
- (c) Work out the mean number of sweets in the 20 packets.

9. Write down the equation of

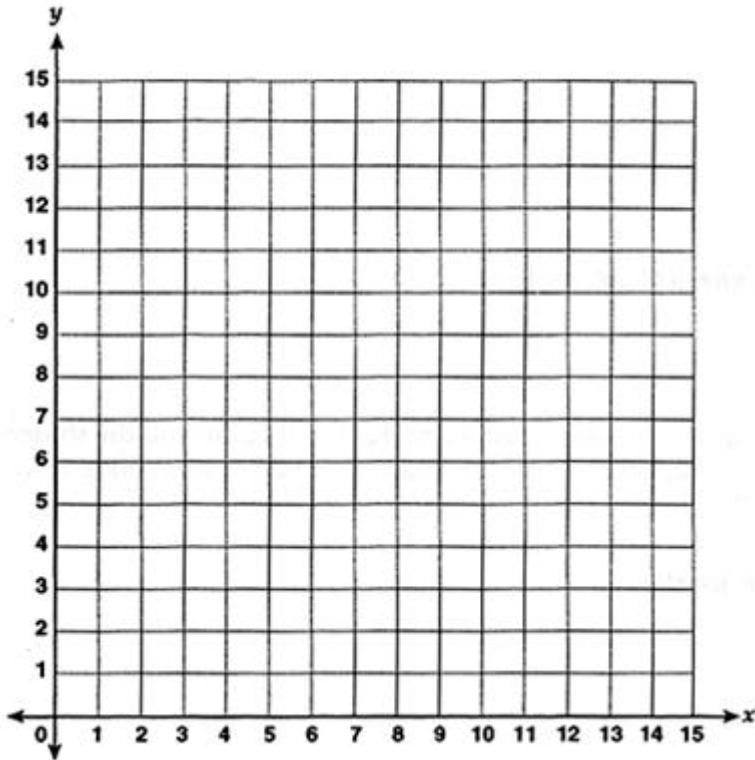
- (i) line A,
- (ii) line B,
- (iii) line C.

from the grid given below.



10. One afternoon event was a race through the park. The race started at the point with the coordinates of (2, 3). The first turn was at (2, 6). The second turn was at (6, 6), and the third turn was at (6, 8). The race ended at (12, 8).

On the grid below, show the path of the race by plotting and connecting the points in the order given above. Label each of the points with the coordinates.



11. Write expression for the  $n$ th term of the sequences given below:

(i) 3, 7, 11, 15...

(ii) -2, 3, 8, 13...

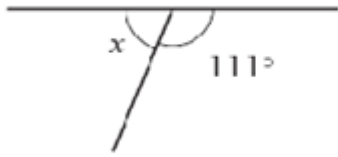
12. Write the first five terms of a sequence if their  $n$ th term is given as:

(i)  $t_n = 3n - 1$

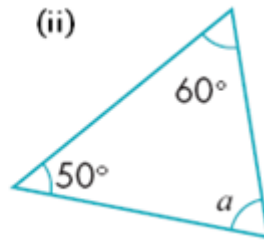
(ii)  $t_n = 1 - 2n$

13. Find the unknown angles:

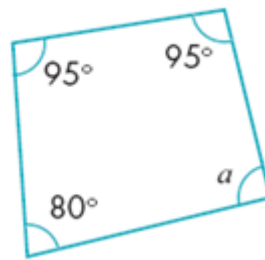
(i)



(ii)



(iii)



**Section –B**

**Make beautiful tea coasters of some mathematical shape as discussed in class.**

**On each coaster, write property of that shape.**

**Minimum 5 to be made.**

**The case can be ready made or you can design your own.**

# VISUAL ARTS

## Oodles of Doodles

Doodle art is a free form drawing project that deals with the Elements of Art-color, line, shape, form and texture. Doodle art is creativity at its best. Create a wonderful piece of art simply by doodling on Full Ivory Sheet. This is very flexible form of art. You are free to fill up with whatever patterns you wish. Let your imagination run wild and express creativity, which also helps to focus better. You are free to draw and doodle whatever you want and become increasingly independent in the realization of the creative process.

