

**KENDRIYA VIDYALAYA, KISHTWAR**

**ACTIVITY-8.7**

**MATHEMATICS**

**CLASS-8**

**On a squared paper, draw five squares of different sides. Write the following information in a tabular form.**

	Square- 1	Square-2	Square-3	Square-4	Square-5
<b>Length of a side (L)</b>					
<b>Perimeter(P)</b>					
$\frac{L}{P}$					
<b>Area(A)</b>					
$\frac{L}{P}$					

Find whether the length of a side is in the direct proportion to:

- (a) the perimeter of a square
- (b) the area of the square

**KENDRIYA VIDYALAYA, KISHTWAR**  
**ACTIVITY-8.8**  
**MATHEMATIC**  
**CLASS-8**

**OBJECTIVE**

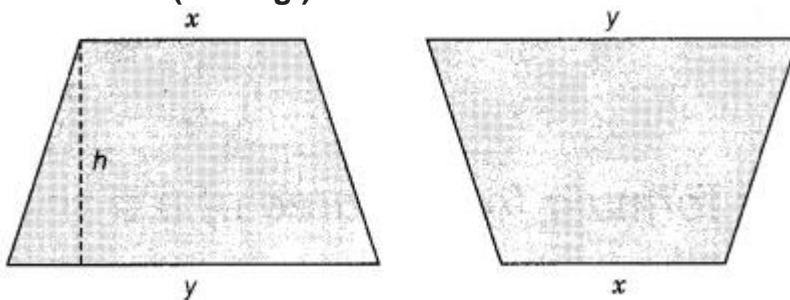
To find the formula for the area of a trapezium experimentally

**Materials Required**

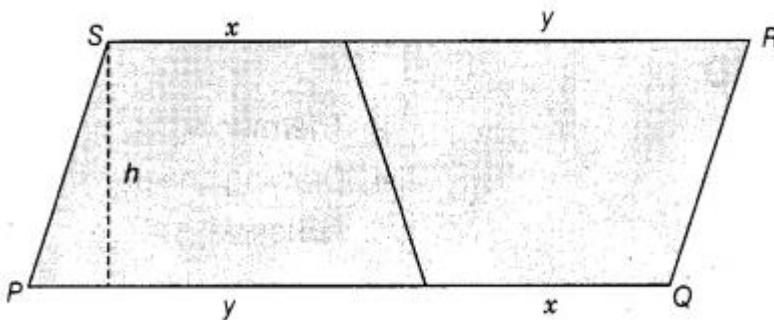
1. Cardboard
2. Geometry box
3. Drawing sheets
4. Scissors
5. Adhesive

**Procedure**

1. Cut out two congruent trapeziums of parallel sides  $x$  and  $y$  units with  $h$  units altitude.(see Fig.)



2. Now, place both trapeziums like the figure given below and paste on the page.



**Demonstration**

1. Now you can see that figure formed by placing, both trapeziums together is a parallelogram.
2. Base of parallelogram =  $(x + y)$  units and corresponding altitude =  $h$  units

3. Now, Area of trapezium =  $\frac{1}{2}$  (Area of parallelogram)  
 =  $\frac{1}{2}$  (Base of parallelogram x Corresponding altitude)  
 =  $\frac{1}{2}[(x + y) \times h]$   
 Hence, area of trapezium =  $\frac{1}{2} \times (x + y) \times h$  .  
 =  $\frac{1}{2} \times$  (Sum of parallel sides) x Altitude

Here, area is in square units.

### Observation

Lengths of parallel sides of the trapezium = ..... , .....

Length of altitude of the parallelogram = .....

Area of the parallelogram = .....

Area of the trapezium =  $\frac{1}{2}$  (Sum of ..... sides) x .....

### Result

We have verified experimentally the formula for the area of a trapezium.

# KENDRIYA VIDYALAYA, KISHTWAR

## ACTIVITY-8

### MATHEMATICS

#### CLASS-9

**OBJECTIVE:** To verify the midpoint theorem.

#### Materials Required

1. Two sheets of coloured paper
2. A geometry box

#### Theory

**Midpoint theorem:** The line segment joining the midpoints of any two sides of a triangle is parallel to the third side.

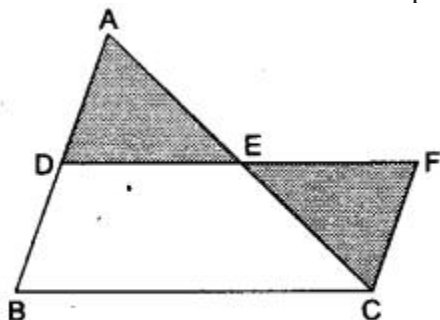
#### Procedure

##### Step 1: .

Cut a  $\triangle ABC$  on from sheet and paste on the page.

**Step 2:** Mark the midpoints D and E of the sides AB and AC respectively (the midpoints of the sides can be obtained by the method of paper folding). Join D and E. Blacken  $\triangle ADE$  with the marker pen.

**Step 3:** Cut another triangle CEE from the other sheet of paper so that  $\triangle CEE$  is congruent to  $\triangle ADR$  Blacken  $\triangle CEE$  with the marker pen. Place  $\triangle CEF$  on the previous paper as shown in Figure 22.1.



**Fig. 22.1**

#### Observations

1.
  1. Since  $\triangle CEF$  is congruent to  $\triangle ADE$ , therefore  $DE = EF$ .
  2. Measure DE and BC. We find that  $DE = \frac{1}{2} BC$ .
  3. From (i) and (ii), we derive that  $DF = BC$ .
2.
  1. Since  $\triangle CEF$  is congruent to  $\triangle ADE$ , therefore  $AD = FC$ .
  2. Since D is the midpoint of AB, we have  $AD = DB$ .
  3. From (i) and (ii), we get  $FC = DB$ .
3. From the above observations, it is clear that DFCB is a parallelogram.  
Hence,  $DE \parallel BC$ .

#### Result

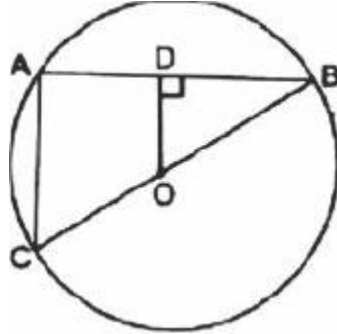
The midpoint theorem is verified.



## ASSIGNMENT

### CLASS-9

1. In the figure, OD is perpendicular to the chord AB of a circle with centre O. If BC is a diameter, show that  $AC \parallel OD$  and  $AC = 2OD$ .



Hint:  $\therefore OD \perp AB$  therefore; D is the mid-point of AB.

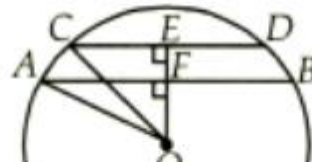
2. Column-II gives value of  $k$  for polynomials given in Column-I when it is completely divisible by  $x - 1$ .

Column-I		Column-II	
(P)	$kx^2 - 3x - 2k$	(1)	0
(Q)	$x^2 - x + k$	(2)	-3
(R)	$2x^2 + kx + 3$	(3)	$(\sqrt{2} - 1)/3$
(S)	$3kx^2 - \sqrt{2}x + 1$	(4)	-5

	P	Q	R	S
(a)	2	1	4	3
(b)	4	1	3	2
(c)	1	4	3	2
(d)	3	2	4	1

3. **Assertion :** If  $f(x) = 3x^7 - 4x^6 + x + 9$  is a polynomial, then its degree is 7.  
**Reason :** Degree of a polynomial is the highest power of the variable in it.

4. In the given figure,  $OE \perp CD$ ,  $OF \perp AB$ ,  $AB \parallel CD$ ,  $AB = 48$  cm,  $CD = 20$  cm, radius  $OA = 26$  cm. The length of  $EF$  is



Match the following :

5.

Column-I		Column-II	
(P)	The radius of circle is 8 cm and the length of one of its chords is 12 cm. The distance of the chord from the centre is	(1)	23 cm
(Q)	Two parallel chords of lengths 30 cm and 16 cm are drawn on the opposite sides of the centre of a circle of radius 17 cm. The distance between the chords is	(2)	5.196 cm
(R)	The length of a chord which is at a distance of 4 cm from the centre of the circle of radius 6 cm is	(3)	5.291 cm
(S)	An equilateral triangle of side 9 cm is inscribed in a circle. The radius of the circle is	(4)	8.94 cm

	P	Q	R	S
(a)	3	1	4	2
(b)	3	4	1	2
(c)	1	2	3	4
(d)	1	3	2	4

6. Assertion : The length of a chord which is at a distance of 5 cm from the centre of a circle of radius 10 cm is 17.32 cm. Reason : The perpendicular from the centre of a circle to a chord bisects the chord
7. Assertion : In an isosceles triangles ABC with  $AB = AC$  , a circle is passing through B and C intersects the sides AB and AC at D and E respectively. Then  $DE \parallel BC$  . Reason : Exterior angle of a cyclic quadrilateral is equal to interior opposite angle of that quadrilateral.
8. A hemispherical tank of radius 3 cm is full of milk. It is connected to a pipe, through which liquid is emptied at the  $\frac{1}{7}$  litre per second. The time taken to empty the tank completely?
9. A small indoor greenhouse is made entirely of glass panes held together with tape. It is 30 cm long, 25 cm wide and 25 cm high. How much of tape is needed for all the 12 edges?
10. A rectangular sheet of metal, x cm by y cm has a square of size z cm cut from each corner. The sheet is then bent to form a tray of depth z cm. The volume of the tray is \_\_\_\_\_.
11. The volumes of two cylinders are as a b: and their heights are as c d: . Find the ratio of their diameters.
12. The volume of the largest circular cone that can be cut from a cube whose edge is 8 cm, is\_\_.
13. Assertion : In  $\triangle ABC$  , E and F are the midpoints of AC and AB respectively. The altitude AP at BC intersects FE at Q. Then,  $AQ = QP$  .  
Reason : Q is the midpoint of AP.

14. Match the following

	Column-I		Column-II
(P)	In a parallelogram $ABCD$ , if $\angle D = 115^\circ$ , then the measure of $\angle A$ is	(1)	$68^\circ$
(Q)	$PQRS$ is a square such that $PR$ and $SQ$ intersect at $O$ . The measure of $\angle POQ$ is	(2)	$58^\circ$
(R)	The diagonals of a rectangle $ABCD$ meet at $O$ . If $\angle BOC = 44^\circ$ , then the measure of $\angle OAD$ is	(3)	$90^\circ$
(S)	If $ABCD$ is a rectangle with $\angle BAC = 32^\circ$ , then the measure of $\angle DBC$ is	(4)	$65^\circ$

Ans : P-4, Q-3, R-1, S-2



15. Assertion : A parallelogram consists of two congruent triangles. Reason : Diagonal of a parallelogram divides it into two congruent triangles.

## ASSIGNMENT

1. Simplify the following expressions:

(i)  $(x + y + z)(x + y - z)$

(ii)  $x^2(x - 3y^2) - xy(y^2 - 2xy) - x(y^3 - 5x^2)$

(iii)  $2x^2(x + 2) - 3x(x^2 - 3) - 5x(x + 5)$

2. From a circular sheet of radius 4 cm, a circle of radius 3 cm is cut out.

**Calculate the area of the remaining sheet after the smaller circle is removed.**

3. A flooring tile is in the shape of a parallelogram with 24 cm base and the corresponding 10 cm height. Calculate the number of tiles required to cover a floor of area 1080 m<sup>2</sup> (If required you can split the tiles in whatever way you want to fill up the corners).

4. Two cubes are joined end to end. Now, calculate the volume of the resulting cuboid, if each side of the cubes is 6 cm.

5. How many bricks each 25 cm by 15 cm by 8 cm, are required for a wall 32 m long, 3 m high and 40 cm thick?

6. Find the area of a rhombus whose one side measures 5 cm and one diagonal as 8 cm.

7. Evaluate:  $(-4)^{-3}$

8. Simplify:  $(3^{-7} \div 3^{-9}) \times 3^{-4}$

9. Find the value of  $(3^7 + 4^{-3} + 5^3)^0$

10. Evaluate:  $[\{1/2\}^{-1} + \{1/3\}^{-1}]^{-1}$

11. Express 31860000000 in standard form.

12. Find x so that  $(-5)^{x+1} \times (-5)^5 = (-5)^7$

13. Solve the following:  $(81)^{-4} \div (729)^{2-x} = 9^{4x}$

14. If 21y5 is a multiple of 9, where y is a digit, what is the value of y?

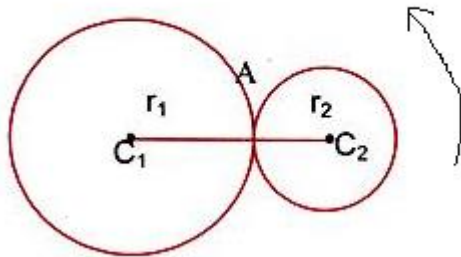
15. 3 lambs finish eating turnips in 8 days. How many days will it take for 2 lambs to finish them?

# CCT

## (MATHEMATICAL LITERACY)

### HOW MANY ROUNDS?

➤ A circle of radius  $r_2$  is moved along the circumference of a fixed radius  $r_1$  as shown in the figure given below. The radius of fixed circle is double the radius moving circle. Answer the following questions:



1. Write the relationship between  $r_1$  and  $r_2$ .
2. How much distance is travelled in completing one revolution along a circle?
3. What will happen if  $r_2$  is doubled?
4. Name the points which remain equidistant from each other throughout the activity.
5. If the circles given above represent two circular gears, then in how many ways can we connect them with single rod such that this rod touch each of them externally at one point only.

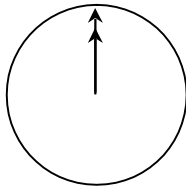
**Answer:**

1.  $r_1 = 2r_2$ .
2. Circumference  $= 2\pi r$
3. Moving circle will have to complete two revolutions.
4. Centre of two circles.
5. Three (Common Tangents)

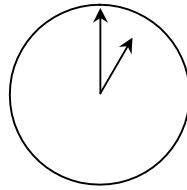
### INTERNET RELAYCHAT

Mark (from Sydney, Australia) and Hans (from Berlin, Germany) often communicate with each other using “chat” on the Internet. They have to log on to the Internet at the same time to be able to chat.

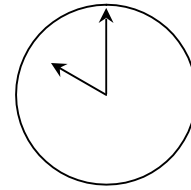
To find a suitable time to chat, Mark looked up a chart of world times and found the following:



Greenwich 12 Midnight



Berlin 1:00 AM



Sydney 10:00 AM

**Question 1: INTERNETRELAYCHAT**

At 7:00 PM in Sydney, what time is it in Berlin?

Answer: .....

**Question 2: INTERNETRELAYCHAT**

Mark and Hans are not able to chat between 9:00 AM and 4:30 PM their local time, as they have to go to school. Also, from 11:00 PM till 7:00 AM their local time they won't be able to chat because they will be sleeping.

When would be a good time for Mark and Hans to chat? Write the local times in the table.

Place	Time
Sydney	
Berlin	

**Answers:**

Any time or interval of time satisfying the 9 hours time difference and taken from one of these intervals:

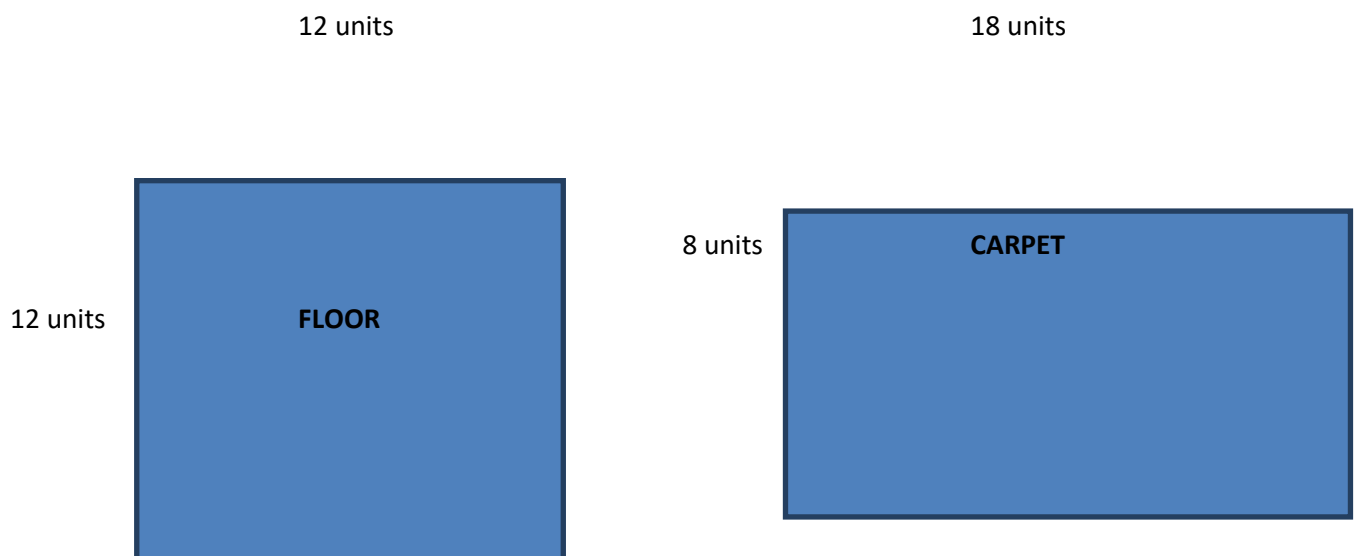
Sydney: 4:30 PM – 6:00 PM; Berlin: 7:30 AM – 9:00 AM OR

Sydney: 7:00 AM – 8:00 AM; Berlin: 10:00 PM – 11:00 PM

Sydney 17:00, Berlin 8:00.

### RECTANGLE AND SQUARE

We have a floor and a carpet of the dimensions as given below.



We want to cover the whole floor with the carpet.

Try to cover the floor with the carpet.

What do you find? Is it possible? Let us discuss the following.

Questions:

1. What are the shapes of floor and carpet?
2. Find the perimeters of floor and carpet.
3. Whose area is greater floor or carpet? How much area of floor can be covered with this carpet?
4. Can we cover the floor with carpet?
5. How can we do it and find the minimum number of pieces in which carpet should be cut to cover the floor?
6. Find the perimeter of each piece of carpet?
7. If we want to join the two pieces using a tape of width 1 unit find the length of tape required.

8.If price of tape is Rs 5 per units. Find the money required to buy the tape.

**Answers:**

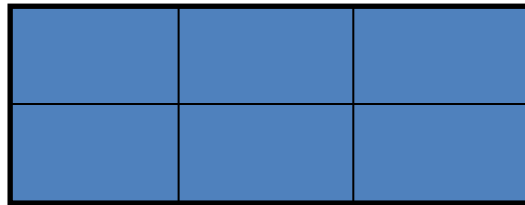
1.Floor: Square shaped                  Carpet: Rectangular shape

2.Perimeter of Floor: 48 units    Perimeter of Carpet:52 units

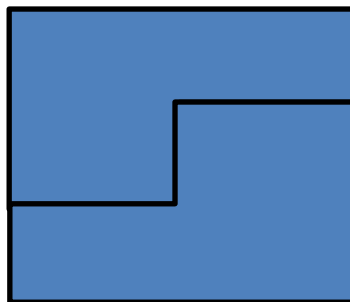
3.Area of Floor: 144 sq units    Area of carpet: 144 sq units    Areas of both are equal.

4.Yes

5.To cover the floor with carpet as there areas are same this can be done by making piece of carpet. Now to over the floor we have to cut and join it so that length of carpet should be decrease from 18 units to 12 units and breadth should increase from 8 units to 12 units. So first mark the carpet along the length in three equal parts each of length 6 units and along the breadth in two parts each of 4 units. Now cut the carpet as per the following diagram.



Put the two pieces adjacent to each other as per following diagram.



Perimeter of each pieces of carpet= $12+8+6+4+6+4=40$  units

Length of tape required to join two carpets= $6+4+6=16$  units

Money required to buy the tape= $16 \times \text{Rs } 5 = \text{Rs } 80$

Other Activity based on above:

If we have to cover the above floor with a rectangular carpet of length 16 units and breadth 9 units. Think and try is it possible?



**CCT**  
**MATHEMATICAL LITERACY**  
**JUICY WATERMELONS**

1. **Cubic watermelons** are watermelons grown into the shape of a cube. This is generally intended for space efficiency in small refrigerators. The practice of growing cube watermelons is popular in Japan. The melons are grown in boxes and assume the shape of the container. Normal watermelons are round in nature.



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**QUESTION 1.1:**

If the side of a cubical watermelon is equal to the diameter of a spherical watermelon and they are to be stacked in boxes, then which one would occupy more space than the other?

**QUESTION 1.2:**

If 90% of the watermelons are full of water, then how much water(juice) will you get from the cubic watermelon of side 15cm?

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**Answers:**

1. Both would occupy same space. When the spherical melons are stacked the gaps in between is wasted and the space is equivalent to the space occupied by a cubic melon of side equal to its diameter.
2. Volume of the cubic watermelon = (side)<sup>3</sup>

$$= 15^3 = 3375 \text{ cu.cm}$$

Volume of water in the watermelon = 90% of 3375

$$= 3037.5 \text{ cu.cm}$$



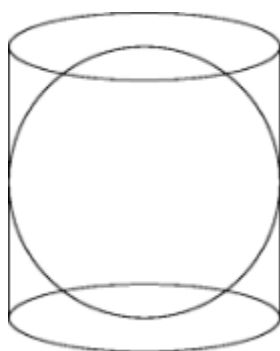
## SPHERE AND CYLINDER

*On the Sphere and Cylinder* is a work that was published by Archimedes in two volumes c. 225 BCE. It most notably details how to find the **surface area** of a **sphere** and the volume of the contained **ball** and the analogous values for a **cylinder**, and was the first to do so.

He also observed that if a sphere is sliced in to equal parts, then the total surface area of each part will same.

Archimedes was particularly proud of this latter result, and so he asked for a sketch of a sphere inscribed in a cylinder to be inscribed on his grave.

Marcellus saw to it that Archimedes was given a burial in accordance with his wishes, including a monument featuring a stone sphere and cylinder.



1. Observe the above figure: A sphere of radius “r” is enclosed by a cylinder.

- What is the Volume of the sphere as compared to the volume of the cylinder?
- Find the ratio of the Total Surface Area of the sphere to that of the cylinder.

$$1. a) \frac{\text{Volume of sphere}}{\text{Volume of cylinder}} = \frac{\frac{4}{3} \pi r^3}{\pi r^2 h}$$

Height of cylinder = 2r

$$\frac{\text{Volume of sphere}}{\text{Volume of cylinder}} = \frac{2}{3}$$

$$b) \frac{\text{TSA of sphere}}{\text{TSA of cylinder}} = \frac{4 \pi r^2}{2 \pi r (r + h)}$$

$$\frac{\text{TSA of sphere}}{\text{TSA of cylinder}} = \frac{2}{3}$$

## SLICING AN ORANGE



2. Using the above knowledge answer the following.

An orange is sliced into six equal slices.

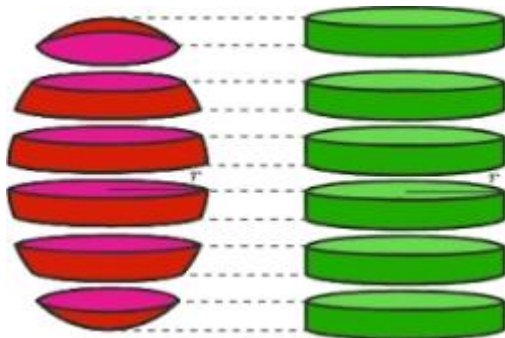
a) Find the volume of each slice.

b) Find the total surface area of each slice of orange.

c) The total surface area of each slice is  $6\pi$ . Find the radius of the orange.

### ANSWERS

2. a) To solve this imagine a cylinder enclosing a sphere:



Volume of each slice =  $\frac{1}{6} \times \frac{2}{3}$  volume of cylinder enclosing the sphere

$$\frac{2}{9}\pi r^3$$

b) TSA of each slice =  $\frac{1}{6} \times \frac{2}{3}$  TSA of cylinder enclosing the sphere

$$= \frac{2}{3}\pi r^2$$

c) Given, TSA of each slice =  $6\pi$

$$\frac{2}{3}\pi r^2 = 6\pi$$

$$r = 3$$

## SCOUT CAMP

Kendriya Vidyalaya New Allahabad Cantt is going to organize a scout camp of national level from 30 July 2019 to 3 August 2019. The participants of 25 regions are coming. Every region scout team consists of 15 students and 2 escorts.



Question 1. How many people will be there on August 1?

Question 2. The Vidyalaya has a huge playground. For making region wise tent they given  $40 \times 40$  square meter area in total.



What will be the maximum size of each tent if every tent shape will be square only?

Question 3. How much rope will be required to make fences of each tent?

Question 4: What is the area occupied per person?

Question 5. During a trekking activity of 6 km a student Ram will go to Sangam and return back up to 12 noon. He estimates that he can go to the Sangam at 1.5 km/h on average, and return at half that speed. These speeds take into account breaks and rest times. Using Ram's estimated speeds, what is the latest time he can begin his walk so that he can return by 12 noon?

Question 6. Ram used step count software on his mobile while trekking to count his steps on his walk to Sangam. He found that he walked 13600 steps on return. Estimate average step length for his return walk. Give your answer in centimeters.



**KENDRIYA VIDYALAYA DPS KISHTWAR  
HOLIDAY HOMEWORK**

**SUBJECT : ENGLISH**

**CLASS: VII**

**SYLLABUS COMPLETED:-**

- Chapter 1 – Chandni
- Chapter 2 – Fire -friends and foe
- Chapter 3 – The bear story
- Chapter 4 – The dad and the cat and the tree.

**HOME ACADEMICS TASK:**

- All students have to complete the exercise (question answers) of each chapter in their fair homework copies.
- The written part should be done neatly in your handwriting in homework copy. Take help of your parents if necessary.
- READ , LEARN and REVISE all the chapters thoroughly.
- Holiday homework is a part of internal assessment so please do it carefully.
- 

**POWERPOINT PRESENTATIONS:-**

**Topic:-** Make PPT on the topic the main ways to put out fire and also role of fire brigade.

**PROJECT:-**

WHAT IS EDUCATION. WRITE CONTRIBUTION OF MAHATMA GANDHI AND RABINDRA NATH TAGORE IN THE FIELD OF EDUCATION.

**PISA ASSIGNMENT:- (WILL BE PROVIDED IN A SEPARATE PDF)**

- TO BE DONE IN A SEPARATE NOTEBOOK.
- WRITE ALL THE CHAPTERS QUESTIONS ANSWER NEATLY AND IN WELL PRESENTED WAY.

**FOUR CHAPTERS: ENGLISH LITERACY .**

**CHAPTER: 1:- STRESS BUSTER**

**CHAPTER: 2:- ENVIRONMENTAL PROBLEM**

**CHAPTER: 3:- WAKE UP CALL FOR US**

**Activities:**

**Activity :1- GUESS WHAT?**

**Activity : 2-What fits best?**

**Activity :3- WHERE I GOES WRONG?**

DO YOUR HOLIDAY HOMEWORK SINCERELY AS YOUR  
INTERNAL ASSESSMENTS DEPEND ON IT.

- FOLLOW THE GUIDELINES TO COMPLETE YOUR HOMEWORK.
- WORK HARD AND ENJOY YOUR VACATION.
- TAKE GOOD CARE OF YOUR HEALTH And HYGIENE. 😊😊

**STAY HOME..........STAY SAFE.**

**SUBJECT TEACHER:-**

**NEHA KUMARI**

**KENDRIYA VIDYALAYA DPS KISHTWAR  
HOLIDAY HOMEWORK**

**SUBJECT : ENGLISH**

**CLASS: IX**

**SYLLABUS COMPLETED:-**

- Chapter 1 – The bond of love
- Chapter 2 – The begger
- Chapter 3 – Reach at the top
- Chapter 4 – If I were you
- Chapter 5- On killing a tree

**HOME ACADEMICS TASK:**

- All students have to complete the exercise (question answers) of each chapter in their fair homework copies.
- The written part should be done neatly in your handwriting in homework copy. Take help of your parents if necessary.
- READ , LEARN and REVISE all the chapters thoroughly.
- Holiday homework is a part of internal assessment so please do it carefully.
- 

**POWERPOINT PRESENTATIONS:-**

**Topic:- Make PPT on ' If I were you' and also add pictures in it**

**PROJECT:-**

**PISA ASSIGNMENT:- (WILL BE PROVIDED IN A SEPARATE PDF)**

**TO BE DONE IN A SEPARATE NOTEBOOK**

- WRITE ALL THE CHAPTERS QUESTIONS ANSWER NEATLY AND IN WELL PRESENTED WAY.

**FOUR CHAPTERS: ENGLISH LITERACY .**

**CHAPTER: 1:- ENVIRONMENTAL PROBLEM**

**CHAPTER 2:- FLY BY DAY, FLY BY NIGHT**

**CHAPTER 3:- HOWARD'S END.**

## **ACTIVITIES**

**Activity :1-** Imagine that you are Santosh Yadav, or Maria Sharapova. You have been invited to speak at an All India Girls' Athletic Meet, as chief guest. Prepare a short speech to motivate the girls to think and dream big and make an effort to fulfil

their dreams

**Activity : 2-** Write about Arunima Sinah and Captain Lakshmi Sehgal. How they reach to their goal.

**Activity :3-** Write about the preparedness of the community for a natural disaster.

DO YOUR HOLIDAY HOMEWORK SINCERELY AS YOUR INTERNAL ASSESSMENTS DEPEND ON IT.

- FOLLOW THE GUIDELINES TO COMPLETE YOUR HOMEWORK.
- WORK HARD AND ENJOY YOUR VACATION.
- TAKE GOOD CARE OF YOUR HEALTH And HYGIENE. 😊😊

**STAY HOME..........STAY SAFE.**

**SUBJECT TEACHER:-**

**NEHA KUMARI**





**KENDRIYA VIDYALAYA, KISHTWAR  
HOLIDAY HOMEWORK (2021-22)**

**SUBJECT: MATHEMATICS**

**CLASS: VIII**

**ACADEMICS TASK:**

- Complete fair NOTEBOOK of mathematics(.CHAPTERS 8-13 AND 16 COMPLETED)
- The written part should be done in neatly in your handwriting.
- REVISE all the chapters thoroughly.
- Holiday homework is a part of internal assessment so please does it carefully.

**CCT ASSIGNMENT:- (WILL BE PROVIDED IN A SEPARATE PDF)**

- TO BE DONE IN A SEPARATE NOTEBOOK.
- WRITE ALL THE CHAPTERS QUESTIONS ANSWER NEATLY AND IN WELL PRESENTED WAY.

**ACTIVITIES: (WILL BE PROVIDED IN A SEPARATE PDF)**

- TO BE DONE IN FAIR NOTEBOOK

**ASSIGNMENT: (WILL BE PROVIDED IN A SEPARATE PDF)**

- TO BE DONE IN FAIR NOTEBOOK

**Subject teacher: Ruchi(TGT-Mathematics)**





**KENDRIYA VIDYALAYA, KISHTWAR  
HOLIDAY HOMEWORK (2021-22)**

**SUBJECT: MATHEMATICS**

**CLASS: IX**

**ACADEMICS TASK:**

- Complete fair NOTEBOOK of mathematics(.TERM-2)
- The written part should be done in neatly in your handwriting.
- REVISE all the chapters thoroughly.
- Holiday homework is a part of internal assessment so please does it carefully.

**CCT ASSIGNMENT:- (WILL BE PROVIDED IN A SEPARATE PDF)**

- TO BE DONE IN A SEPARATE NOTEBOOK.
- WRITE ALL THE CHAPTERS QUESTIONS ANSWER NEATLY AND IN WELL PRESENTED WAY.

**ACTIVITIES: (WILL BE PROVIDED IN A SEPARATE PDF)**

- TO BE DONE IN FAIR NOTEBOOK

**ASSIGNMENT: (WILL BE PROVIDED IN A SEPARATE PDF)**

- TO BE DONE IN FAIR NOTEBOOK

**Subject teacher: Ruchi(TGT-Mathematics)**

**KENDRIYA VIDYALAYA KISHTWAR**  
**MULTIDISCIPLINARY PROJECT**  
**CLASS-VIII (2021-22) (TERM-2)**

NAME OF THE TEST/ EXAM	MULTIDISCIPLINARY PROJECT THEME	ENGLISH	HINDI	MATHEMATICS	SCIENCE	SOCIAL SCIENCE
<b>TERM-2 PROJECT</b> (15 marks)	<b>TECHNOLOGY AND HUMAN</b>	Essay on technology :bane or boon for human civilization (with pictures)	प्रद्योगिकि विकास मे मानव एक संसाधन के रूप मे।	Write in brief about Number of user of internet in India. Represent this data through bar graph of last 6 years.	Science and technology	Crafts and industries(textiles, iron and steel industry) <ul style="list-style-type: none"><li>● Role of these industries in the industrial revolution.</li><li>● How Britain came to be known as the “ workshop of the world.”</li></ul>

**NOTE: PREPARE THIS PROJECT IN ONE FILE ONLY. IT IS MANDATORY FOR ALL STUDENTS.**

**FOR MORE GUIDANCE CONTACT YOUR SUBJECT TEACHER.**