1   Define polymer.
2   Give two uses of nylon.
3   Mention three disadvantages of synthetic fibre.
4   Give three differenes between thermoplastics and thermosetting plastics.
5   Write two uses each of the following :   PET, HDPE, LDPE, PVC, PP and PS
6   Define agriculture.
7   Give two examples of Rabi crops.
8   Why ploughing is important?
9   Which tool is used to plough the soil?
10 Give two examples of natural fertilizers.
11 Describe manual sowing.
12 Name two modern methods of irrigation.
13 What are weeds?
14 Give two examples of weeds.
15 Why is it necessary to remove the weeds?
16 What is winnowing?
17 What is threshing?
18 Why is it important for granaries to be clean and dry?
2.   Which is the only non-meals that exists as a liquid at room temperature?
10.   What kind of light is produced when magnesium is burnt in air?
4.   What are the two properties of gold, silver and platinum that make them suitable to make jewellery?
9.   Why metals are used for making electrical wires and cables?
7.   Write the reactions of carbon dioxide and sulphur dioxide with water. Also name the products which are formed.
9.   Explain why Iron, Copper and Silver objects become weak with the passage of time?
6.   Write the chemical reactions of zinc and magnesium with sulphuric acid.
7.   Write the balanced equation to show aluminium reacts with hydrochloric acid.
       Also, name the products which are formed.
1   What is the SI unit of force?
2   Define non-contact force.
3   Write two differences between sliding and rolling friction?
4   Write down two methods of increasing friction.
5   Explain why ball bearing are used
6   Define fluid friction.
7   What is the symmetrical shape of boat, aeroplane etc. called.
8   Why is driving on an icy road dangerous?
1) Name the instrument used to measure atmospheric pressure.
1) If a force of 8 N is applied on an area of $2m^2$, calculate the pressure.
2) Sudden changes in atmospheric pressure can affect our body. Give two examples.
3) Why are dams broader at the base than at the top?
4) How does liquid pressure varies with depth?
5) Why edge of knife is made sharp?
6) Why does straps of shoulder bags are made broader?
1) Describe an activity to show that pressure exerted by a liquid is same at equal depth.
1) Draw a well labelled diagram of open tube monometer. Also explain its working.

1) Name the water that is suitable for human consumption.
2) Name the atmospheric layer that puotects living beings from the harmful ultraviolet rays of the sun.
1) Differentiate between chemical and biological water pollution.
2) Write a short note on acid rain.
1) Describe three methods of prevention of water pollution.
2) Describe the effects of air pollution on human health.
1) Describe the method of purification of water at home.

The GURUKUL NILOKHERI

Holidays Assignment
Class : VIII
Subject - English

Tasks	Instructions
Three forms of the verbs	Learn three forms of the verbs with their meaning and spellings (shall be the evaluated/tested) (100 verbs)
Vocabulary	Underline and learn the meanings of at least 30 words from the chapters:- 1) Christopher Columbus 2) The Day Beni Pishi…………
Writing dialogue	Make a choice of any two characters from the chapters you have read 1) Apologise 2) I have A Dream Invent the conversation between them (Imaginative) , five dialouges of each them.
Travelogue	Write a detailed account of your visit to any of the followings during summer break:- Hill station, Friends/relatives/ historical place etc. (Time, when it began, how you reached (conveyance) no. of persons, stay, hotel, visiting points) place, feeling, experience when came back. Photos can be pasted (returnable)
Tense Chart	Make a tense chart writing all 12 verbs forms. 3 Examples of affirmative, negative and interrogative (one each) Underline the verbs in the sentences.
My Weekly Newspaper	The month of June has 4 weeks. Make a weekly newspaper per week (News Headlines only). (Total 2) Mention all important news and current events. eg: National, international, weather reports, sports etc.
Narration (Direct-Indrect speech	Make a chart of direct and indirect speech (as suggested and write sentenes of your own)
Letter to the Editor	Write two letters to the editor on most significant events, took place in the month of June.

विषय–हिन्दी

1. ग्रीष्मावकाश में अपने लिए एक समय सारिणी बनाते हुए अपनी कार्य योजना लिखिए।

पाठ्यपुस्तक 'वसंत' भाग–3

गद्य खंड

पाठ लाख की चूड़ियाँ, बस की यात्रा, कामचोर के प्रश्न व शब्द अर्थ याद करके एक बार लिखना है।

पद्य खंड

कविता ध्वनि : कविता का सरलार्थ के अनुसार सार तैयार करके लिखना।

पुस्तक 'भारत की खोज'

पाठ 'अहमदनगर का किला', 'तलाश' लिखवाए गए प्रश्न–उत्तर याद करने तथा 'सिंधु घाटी की सभ्यता' के भी प्रश्न–उत्तर याद करने हैं।

व्याकरण

भाषा, बोली, लिपि, व्याकरण तथा हिन्दी भाषा से 10 प्रश्न (Objective) तैयार करने।

पर्यायवाची, मुहावरे (केवल अर्थ) व विपरीतार्थक शब्द–याद करके एक बार लिखिए।

करवाए गए निबंध व पत्र याद करके एक बार लिखिए।

एक कविता याद करें – विषय (देशभक्ति, भक्ति व सामाजिक विष्य पर आधारित)

Subject - Social Science

1) What do you mean by history? In how many parts the Indian History is divided by James Mill? What are the problems with this periodisation?
2) Explain the periodisation of history apart from british periodisation?
3) Why did Britishers start survey in the country? Write the types of different surveys.
4) What were the reasons for battle of Buxar? Explain its results also.
5) Write about the battle of Plassey in detail.
6) Write short note on different policies of Britishers
   (i) Subsidiary alliance (ii) Doctrine of lapse.
7) Write short notes on different systems of Indigo cultivation.
8) Compare all three revenue systems started by Britishers (Permanent settlement, Amahalwari, Ryotwari)
9) What is soil. Explain its formation, Soil erosion and methods of soil conservation.
10) What are resources? Explain the types of resources on different basis.
11) Write a short note on land resource? Explain the causes of land degradation and methods to stop it.
12) What is constitution? Explain its features.
13) Explain the fundamental rights in detail.
14) What is secularism? How can you say that India is secular state?

Activities:-
1) Make the list of cabinet ministers and their portfolios with their pictures.
2) Make the collage related to the current affair (i.e. GST and India – Pakistan Relationship from the newspaper).
3) Make the chart of preamble with its terms and meaning.
4) Make the list of leaders of the revolt of 1857, along with their areas of revolt.

Map Practice Work:-
1) Main centres of the revolt of 1857 in India.
2) Distribution of minerals in India and the world.
3) Location of some Tribal groups in India.

Learning work: Read the following chapters and learn questions answer.
1) How, when and where.
2) From trade to territory.
3) Resources.
4) Land, soil, water, natural vegetation and wildlife resources.
5) Ruling the country side.
6) The Indian Constitution.
7) Understanding Secularism.

Section-A

1. From a rope 40 metres long, pieces of equal size are cut. If the length of one piece is $\dfrac{10}{3}$ metre, find the number of such pieces.

2. What number should be added to to get ?

3. Find the missing numbers in each of the following
   (a) 3, 6, 12, 21, 33, ..., ..., ...,
   (b) 144, 121, ..., ..., 64, 49

4. Check the divisibility of 15287 by 3.

5. Three angles of a quadrilateral are 50°, 70° and 120°. Find the fourth angle.

6. Two adjacent sides of a parallelogram are 3 cm and 4 cm respectively. Find the perimeter of parallelogram.

7. Ram bought a bicycle for Rs 4000 and sold it for Rs 5600. Find his profit percent.

8. The marked price of a sewing machine is Rs 2300. It is sold at a discount of 4%. Find the selling price of sewing machine.

9. The area of rhombus is 240 cm^2 and one of the diagonal is 16 cm. Find the other diagonal.

10. Find the length of a rectangle whose area is 120 sq. cm and breadth is 8 cm. $\qquad 10 \times 1 = 10$

Section-B

11. Two opposite angles of a parallelogram are $(4x – 15)°$ and $(5x – 3)°$. Find the measure of each angle.

12. Find two rational numbers between .

13. The strength of a school is 1800. If 55% of the students are girls, then how many boys are in the school.

14. Find the cost of 12 books, if 8 books cost Rs 56.

15. The area of a trapezium is 480 cm^2. If the parallel sides are 48 cm and 72 cm long. Find the perpendicular distance between them.

16. The sides of a triangle are 12 cm, 35 cm, 37 cm. Find its area. $\qquad 6 \times 2 = 12$
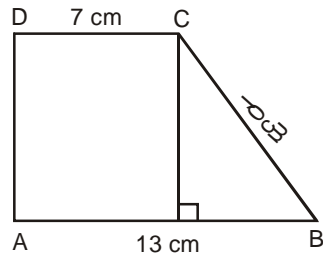
Section-C

17. If in a code, PAINT is written as 74128 and EXCEL is written as 93596, the how will ACCEPT be written in that code

18. Write the numbers from 4 to 12 using once in the blank squares in such a way, that the sum of each row, column and diagonal is 24.

11	6	
	8	

19. If two adjacent angles of a parallelogram are $(5x – 5)°$ and $(10x + 35)°$, then find the ratio of these angles.

20. The area of a rectangle is . If one of its side is , find its perimeter.

21. 800 men can finish a stock of food in 60 days. How many more men should join them to finish the same work in 40 days?
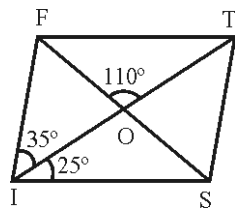
22. Ram bought a jacket for Rs 5350 including 7% sales tax and a shirt for Rs 448 including 12% sales tax. Find the marked price (without sale tax) of the jacket and the shirt together.

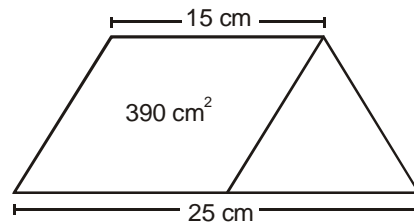23. In the given figure, AB || DC and DA ⊥ AB. If DC = 7 cm, BC = 10 cm, AB = 13 cm, and CL ⊥ AB. Find the area of trapezium ABCD.

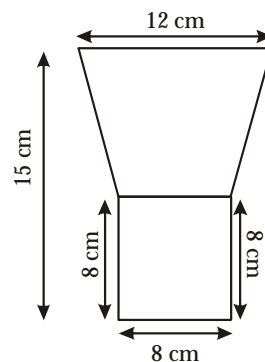24. A floor 10 m long and 7m broad is to he paved with square tiles of side 50 cm. Find the number of tiles required. $8 \times 3 = 24$

Section-D

25. The perimeter of an isosceles triangle is 18 cm. If one of the equal sides is cm long, find the measure of the third side.

26. Divide the sum of and by the product of and .

27. Anju came home to find a pizza on the table of which $\left(\dfrac{1}{5}\right)$th was already eaten. She then eats $\left(\dfrac{1}{3}\right)$rd of what was remaining. Find the portion of the pizza that is left.

28. In a paralleolgram FIST, find ∠SFT, ∠OST and ∠STO.

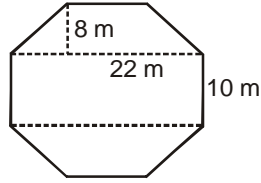29. Find the area enclosed by the following figure.

30. Calculate the area of the following figure

31. The ratio of the lengths of the parallel sides of a trapezium is 5 : 3. The distance between them is 16cm. If the area of the trapezium is 960 cm², find the lengths of the parallel sides.

Section-D

32. Top surface of a raised platform is in the shape of a regular octagon as shown in the figure. Find the area of the octagonal surface.

33. A hostel spends Rs 3200 as cost of rice for 20 students for 30 days. If they spend Rs 2400 for 30 students, for how many days will the rice last?

34. Raman sells two wrist watches for Rs 1200 each. On one watch, he gains 20% and on the other he loses 20%. What are the cost prices of each and what is his actual gain or loss percentage?

35. A shopkeeper announced of festival discount of 30% for all the items in his shop. Jagdish bought a mobile phone for himself. He got a discount of Rs 960. What was the marked price of the mobile phone?

$$11 \times 4 = 44$$

ANSWER KEY

1. 12 2. $\dfrac{27}{28}$ 3. (i) 48, 66, 87 (ii) 100, 81 4. No 5. 120°

6. 14 cm 7. 40% 8. Rs 2208 9. 30 cm 10. 15 cm

11. 73°, 107°, 73°, 107° 12. ____ 13. 810 14. Rs 84

15. 8 cm 16. 210 cm² 17. 455978 18. ____

19. x=100°, y=50°, z=30° 20. $\dfrac{44}{7}$ cm 21. 400 men. 22. Rs 5400

23. 30 cm 24. 280 tiles 25. 26. 27. _____ 28. ∠c=75°, ∠b=105°, ∠d=105°

29. 520cm² 30. 134 cm² 31. 75 cm, 45 cm 32. 476 m² 33. 15 days

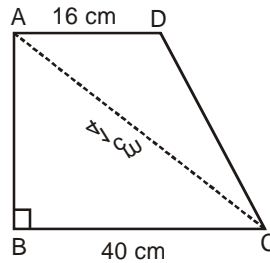34. Rs 1000, Rs 1500, loss 4% 35. Rs 3200

Section-A

1. Write the multiplicative inverse of $-2\dfrac{1}{3} \div 7$

2. In quadrilateral ROPE, write the pairs of opposite sides.

3. The area of an equilateral triangle is $\left(16 \times \sqrt{3}\right)$ cm². Find the length of each side of the triangle.

4. 212×5 is a multiple of 3. Find the largest value of x.

5. Compare $\dfrac{-4}{5}$ and $\dfrac{-2}{3}$.

6. When the speed remains constant, the distance is ……… proportional to time.

7. If x varies inversely as y and y = 60 when x = 1.5, find x when y = 4.5.

8. Solve : $\left| \dfrac{1}{5} \times \dfrac{-3}{4} \right|$

9. The marked price of an article is Rs. 80 and it is sold at Rs. 76. Find the discount rate.   9×1=9

Section-B

10. Solve using distributive property : $-\dfrac{2}{3} \times \left(\dfrac{7}{5} - \dfrac{1}{4} \right)$

11. Find the length of one diagonal of a rectangle whose sides are 10 cm and 24 cm.

12. Which is largest $6\dfrac{2}{3}\%, \dfrac{3}{20}$ or 0.14.

13. If the area of the rhombus is 84cm² and one of its diagonals is 12cm. Find the length of other diagonal.

14. 100 persons had food provisions for 24 days. If 20 persons left the place, how many days the provisions will last.

15. Find the missing numbers in each of the following
    (a) 9, 27, 45, 63, ..., ..., ...,
    (b) 7, 13, 10, 10, 13, 7, 16, ..., ..., 1.

16. If two adjacent angles of a parallelogram are (5x-5)° and (10x+35°), then find the ratio of these angles.

17. Verify |x × y| = |x| × |y| if $x = -\dfrac{2}{3}$ and $y = \dfrac{1}{2}$

18. A quadrilateral has three acute angles. If each measure 80⁰, then find the measure of fourth angle.

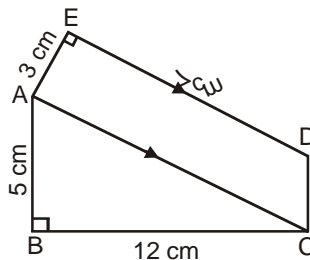19. Write five rational numbers between x and |x| if $x = \dfrac{-5}{7}$

20. In the given figure, ABCD is a trapezium in which AD || BC ∠ABC = 90º, AD = 16 cm, AC = 41 cm and BC = 40 cm. Find the area of the trapezium.
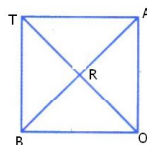
A   16 cm   D

B   40 cm   C

21. Find the area of an equilateral triangle whose each side measures 20cm.
22. A TV set was bought for Rs. 26, 250 including 5% VAT. Find the original price of the TV
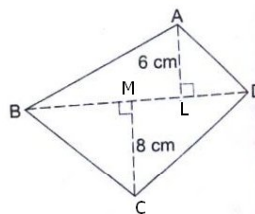
Section-C

23. Find the area of trapezium whose parallel sides are of lengths 27cm and 19cm respectively, and the distance between them is 14 cm.
24. The sides of rectangular park are in the ratio 4 : 3. If its area is 1728 m², find the cost of fencing it at ` 2.50 per metre.
25. A man bought apples at 10 for Rs. 25 and sold them at Rs. 25 per dozen. Find his gain or loss percent.
26. 2 men or 3 women can do a piece of work in 16 days. In how many days can 4 men and 6 women do the same work.
27. NEST is a rectanlge whose diagonals are 5x-3 and 3x+5. Find the length of these diagonals.

28. Find the area enclosed by the following figure.

E

A

5 cm

B   12 cm   C

D

29. BOAT is a square whose diagonals bisect at R. Find the measure of ∠ABT and ∠TOA

T   A

R

B   O

30. In the given figure, ABCD is a quadrilateral in which BD = 14cm , AL ⊥ BD, CM ⊥ BD such that AL=6cm and CM=8 cm. Find the area of quad. ABCD.

A

6 cm

B   M   L   D

8 cm

C

31. Three angles of a quadrilateral are in the ratio 1 : 2 : 3. The mean of these angles is 32º. Find all the four angles.
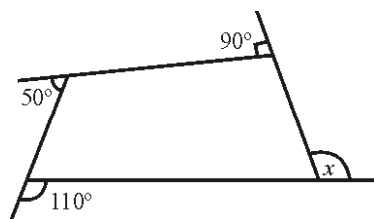
32. The sum of a 2 digit number is 8. If the digit of the number are reversed then the new number so formed is 18 more than the original number. Find the original number.

33. Divide the sum of $2\dfrac{1}{5}$ and $3\dfrac{1}{2}$ by the product of $1\dfrac{2}{3}$ and $3\dfrac{4}{5}$.

34. A $117\dfrac{1}{3}$ m long rope is cut into equal pieces measuring $1\dfrac{1}{3}$ m each. How many such small pieces are there.

Section-D

35. Write the following rational numbers in the descending order.

$$\dfrac{8}{7}, \dfrac{-9}{8}, \dfrac{-3}{2}, 0, \dfrac{2}{5}$$

36. Laxmi sold two sarees for Rs. 2185 each. On one she lost 5% while on the other she gain 15%. Find gain or loss percent in the whole transaction.

37. Find the measure of x.

38. The parallel sides of a trapezium are 25 cm and 13 cm, its non-parallel sides are equal, each being 10cm. Find the area of the trapezium.

39. Aditya travelled $2\dfrac{1}{4}$ km from home to school, $3\dfrac{1}{2}$ km from school to the post office, $5\dfrac{3}{4}$ km from the post office to the market and $2\dfrac{1}{8}$ km from the market to his home. How many kilometers did Aditya travel?

Answer key-Maths-VIII

(1) -3

(2) (RO, EP), (RE,OP)

(3) 10 sq. cm

(4) 8

(5) $-\dfrac{2}{3}$ is greater than $-\dfrac{4}{5}$

(6) directly

(7) 20

(8) $+\dfrac{3}{20}$

(9) 5%

(10) $-\dfrac{23}{30}$

(11) 26 cm

(12) $\dfrac{3}{20}$

(13) 14 cm

(14) 30 days

(15) Q=9, P=6

(16) 1:3

(17) …..

(18) 120⁰

(20) 173.2 sq. cm

(21) Rs. 25000

(22) 322 sq. cm

(23) $66\dfrac{2}{3}$%

(24) 45 cm

(25) loss $16\dfrac{2}{3}$%

(26) 14 days

(27) 17 cm

(28) 8 cm

(29) 45°, 45°

(30) 98 sq cm

(31) 70⁰

(32) 53

(33) $\dfrac{9}{10}$

(34) 16

(35) 700, 420

(36) 6% gain

(37) 40°, 140°

(38) 152 sqcm

(39) -39