

ARMY PUBLIC SCHOOL KANDRORI
HOLIDAYS HOMEWORK
CLASS IX(2024-25)

ENGLISH WORKSHEET

GENERAL INSTRUCTIONS:

- 1) You can fill the blanks in the space provided.
- 2) Attach extra sheets for writing the answers.
- 3) Do it in neat handwriting.
- 4) Write question numbers properly.
- 5) All questions mandatory.

READING

Q1) Read the passage carefully.

1. Concern about the effects of television on children has centred exclusively upon the contents of the programmes which children watch. Social scientists and researchers do complex and ingenious experiments to find out whether watching violent programmes make children behave aggressively . but is it easy to overlook the simple fact that one is always watching television when sitting in front of the screen rather than having any other experience?

2. Parents who are deeply troubled about the effects of television upon their children have centred their concern on the subject matter of the programmes. A group called Action For Children's Television (ACT) was formed in the USA not only to reduce the amount of violence in programmes but also to protest against incessant commercial breaks which encouraged children to crave for fashionable toys and unhealthy foods. One of its founders described its aim: " parents have the rights to ask that programmes aimed at the young should meet the specific needs of children....". But is it the needs of children which are at stake when parents demand better programmes? Surely the fact that young children watch so much television reflects the needs of parents to find a convenient source of amusement for their offspring and a period of quiet for themselves. Their anxieties about the possible ill-effects of those hours of passive ,quiet viewing are lessened if the time spent atleast seems to be educational.

3. The real needs of young children are quiet different . They need to develop initiative and to find out things themselves ; television provides answers too easily. Children need to acquire fundamental skills of communication; television retards verbal development because the child is silent while watching it. Television discourages the sort of games that enable the young to discover their strengths and weaknesses, with the result that as adults they will be less fulfilled. Their needs for fantasy is gratified far better by their own make-believe activities than by adult -made fantasies offered on television. Intellectual stimulation is provided more completely by manipulating, touching and doing than by passively watching and listening.

4. Oddly enough , the television industry , though often cynical and self-serving in its exploitation of children, sometimes unknowingly serves their best interests. Because television offers cheap junk programmes , conscientious parents do infact limit their children's viewing when such undesirable programmes are the only ones available .

On the basis of your understanding of the passage , answer the following questions.

- i) Write word meanings of all underlined words given in above passage.
- ii) Television watching by children is mainly debated for
 - a) the contents of the programme
 - b) late night shows
 - b) political discussion
 - d) viewing during school hours
- iii) What do you mean by ACT?
- iv) What do the parents NOT want to be shown in the TV programme.
- v) Parents' anxiety about TV viewing by children is reduced if TV programmes are _____.
- vi) Why is the writer against TV watching by children?
- vii) What is the writer's suggestion in 4th para?
- viii) Children's need for fantasy is gratified far better by their own make-believe activities than by the adult-made fantasies. (True/False)
- ix) The tone of the writer is _____
(a) cynical (b) critical (c) ironical (d) objective.
- x) Make your own sentences using underlined words .

Q2) Read the passage carefully.

Hobbies help us grow as a person. The best way to have a new hobby is to try something new. All of us are unique, and this is the reason why our hobbies and interests are different. Once we find an activity we are passionate about, we can explore that activity more. When you get hooked, you will realize that your hobby has become an integral part of your life. Having a hobby that we enjoy brings us joy and refreshes us. Hobbies help us to manage our leisure and unplanned time more productively. It also affords you the opportunity to learn new skills in your work. But these are not the only benefits of having a hobby.

2. It feels great to be skilled and good at something, doesn't it ? And this is what that makes you confident. It can take some time to develop your hobby so that you may be able to tell that you are skilled. But, the journey of experiencing your hobby is very rewarding in itself. With the exposure to different types of activities these days, it doesn't matter which activity you choose. Whether you are pursuing a craft, sports, puzzles, or skill development, your hobby should be a diversion and a passion. Simultaneously, if your hobby gives you a sense of purpose, then you will be more confident about challenging yourself

in your hobby and help you prepare for learning new things at work.

3. Hobbies give you an opportunity to enhance your life. Hobbies allow you to de-stress yourself while remaining mentally productive. Having hobbies promotes better health and may lower the risk of having high blood pressure. Enjoying a few hours of your hobby a week can also reduce the risk of depression and dementia. Hobbies refocus your mind on to something that you enjoy doing. Hobbies that include physical activities create chemical changes in your body that help to reduce stress.

4. Even if it doesn't involve physical activities, you can still reap the benefits of having a hobby. Getting a short break from work and doing something you are passionate about can rejuvenate your mind and help prepare you to handle challenges in the future in a better way.

5. Hobbies may provide an opportunity for you to socialize with people and that can be an additional benefit for your overall well-being. You can connect with people who enjoy doing the same things that you do. You can meet new people, discuss your hobby and get connected to a bigger circle that may even help you turn your hobby into your profession. The internet provides numerous groups and forums to connect with people that enjoy doing the same things that you want to do.

6. Some hobbies require creativity and if you develop creativity through your hobby, it can be beneficial. Creativity can help you experience new things at school and work. The skill of being creative is essential in today's world.

Based on your understanding of the passage, answer the questions given below.

i. When a person gets hooked on a hobby, he realises that :

- (a) it has become an integral part of our life.
- (b) it has much more benefits than we realised.
- (c) it is much more enjoyable to have a hobby.
- (d) it is quite essential for us to learn some skills through our hobbies.

ii. No matter which sort of hobby you are pursuing, be it a craft, sports, puzzles, or skill development, your hobby should be :

- (a) useful for you in the long run.
- (b) a skill that improves your present circumstances.
- (c) a diversion and a passion.
- (d) followed through till the end.

iii. The journey of experiencing a hobby is quite :

- (a) challenging for a person.
- (b) rewarding in itself.
- (c) demanding in itself.
- (d) inspirational for a person.

iv. State any one way through which hobbies enhance your life?

v. Getting a hobby means having a short break from work and doing something you are passionate about which can

- (a) give you a peace of mind from all the other problems of daily hectic life and make you feel refreshed.
- (b) help you enhance and improve your skills and push you forward on your path to success.
- (c) make you enjoy and appreciate your life much more as you are happy pursuing what you love.
- (d) rejuvenate your mind and help prepare you to handle challenges in the future in a better way.

vi. List any two benefits of having a hobby.

- 1. _____
- 2. _____

vii. What is essential in today's world?

viii. Give an appropriate title for the passage.

ix. Supply 1 point to justify the following:

Hobby provides you with an opportunity to socialise with people.

x. Choose an option that is clearly a synonym of the word 'hooked'.

- (a) opposed
- (b) indifferent
- (c) willing
- (d) captivated

GRAMMAR

➤ Tenses

Q3) Complete the following passages with correct form of verbs given in brackets.

1. My brother (a) _____ (leave) for school when I _____ (reach) home. No one (c) _____ (be) there to receive me. I (d) _____ (think) I should go to see some movie.
2. Father (a) _____ (come) back from his tour. He (b) _____ (seem) to be cheerful. He soon (c) _____ (tell) us what he (d) _____ (do) abroad.

➤ Modals

Q4) Fill in the blanks with correct modals given below.

A driver (a) _____ take care not to overtake from the wrong side. It (b) _____ involve him in some fatal accident . He (c) _____ not use mobile while driving as it is quite risky. If he is a good driver he (d) _____ never exceed the speed limit. You know I am a good driver and I (e) _____ run my car smoothly at 120, but I never (f) _____ do so, as it (g) _____ cause a serious accident.

- | | | | |
|---------------|------------|------------|------------|
| (a)(i)would | (ii)should | (iii)can | (iv)could |
| (b)(i)might | (ii)could | (iii)may | (iv)would |
| (c)(i) should | (ii)would | (iii)could | (iv)might |
| (d)(i) can | (ii)could | (iii)might | (iv)may |
| (e)(i) should | (ii)could | (iii)would | (iv)can |
| (f)(i)need | (ii)dare | (iii)might | (iv)can |
| (g)(i)may | (ii)might | (iii)would | (iv)should |

➤ Determiners

Q5) Fill in the blanks with suitable determiners from the ones given below.

The name Eskimo comes from (a) _____ language of (b) _____ northern red Indians. It is (c) _____ appropriate name because (d) _____ Eskimo live mainly by hunting and fishing.

- (a) a , an , the , some
- (b) the, a , an , this
- (c) the, a, an, many
- (d) a, an, the , any

➤ Subject -Verb agreement

Q6) In each of the following sentences, supply a verb in agreement with its subject.

1. Raman and not you (was, were) to blame.
2. All my relatives in this city (is, are) prosperous.
3. Twenty minutes (is, are) allowed to each visitor.
4. Two- thirds of the city (has, have) perished.
5. Each of the sportspersons (has, have) to follow the rules.

➤ Reported Speech

Q7) Change the following sentences from direct speech to indirect speech.

- 1) Rohit said, " I am taking my meal."
- 2) He said to me, "You are not a singer.
- 3) The teacher said to Ram, " Are you ready?"
- 4) He said to his servant, " Open the door.

INTEGRATED GRAMMAR

Attempt the following questions.

i. Fill in the blank by choosing the correct option to complete the sentence.

The boys _____ to my lecture since 8 O'clock this morning.

- (a) were listening (b) have been listening
(c) had been listening (d) None of these

ii. Read the conversation between a mother and her daughter. Complete the sentence by reporting daughter's reply correctly.

Mother: Why are you looking so worried?

Daughter: My exams are approaching.

Mother asked her daughter why she was looking very worried. The daughter replied that _____.

iii. Select the correct option to fill in the blank for the given line.

I _____ rather die than join the gang of terrorists.

- (a) could (b) should (c) would (d) can

iv. Select the option that identifies the error and supplies the correction for the following line:

A little political thinkers think that liberty and equality can't go together.

Option No.	Error	Correction
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(a)	can't	couldn't
-----	-------	----------

(b)	think	thinks
-----	-------	--------

(c)	A little	Some
-----	----------	------

(d)	go	goes
-----	----	------

v. Complete the given sentence, by filling in the blank with the correct option:

They met you at night after you _____ your work.

- (a) had finished (b) have finished (c) finished (d) will finish

vi. Fill in the blank by using the correct form of the word in the bracket.

Chris, in addition to his brother Zack, _____ (play)hockey on Saturday.

vii. Report the dialogue between a doctor and a patient, by completing the sentence:

Doctor : You should take this medicine every day.

Patient : Should I take it before dinner or after dinner?

Doctor : No, you should take it after breakfast.

The Doctor advised the patient that he should take that medicine every day. The patient further asked if he should take it before dinner or after dinner. The doctor replied negatively and then said that _____.

viii. Identify the error in the given sentence and supply the correction.

Some guys like to fight on even playing grounds, and some guys like to cheat. Use the given format for your response.

Error Correction

ix. Transform the following direct speech into reported speech:

He asked, "Will you be coming?"

x. Fill in the blank by choosing the correct option, to complete the sentence.

My class teacher told me that I _____ work hard.

(a) shall (b) could (c) can (d) should

xi. Select the correct option to complete the narration of the dialogue between Radha and Shikha.

Radha : Do you know how to swim?

Shikha : Yes I know. I have learnt it during this summer vacation.

Radha asked Shikha if/whether she knew how to swim. Then Shikha replied in affirmative and also added that _____.

(a) she had learnt it during the summer vacation

(b) she has learnt it during the summer vacation

(c) she have learnt it during the summer vacation

(d) she had learn it during the summer vacation

xii. Identify the error and supply the correction, for the following sentence:

Every people went to welcome the Indian Cricket team.

Error Correction

CREATIVE WRITING SKILLS

Q1) Write a letter to the Editor of "The Times of India", Delhi expressing your concern over the increase in the rate of road accident, rash driving and overcrowded road transport. You are Priya/Priyanshu living at B-47 Avas Vikas, Mayur Vihar, New Delhi.

Q2) Your school organised " Sports Day". Write a brief description about it (word limit- 100-120 words)

Q3) Write a brief description of Shivaji, the Great Maratha. Use the hints given below. Born in 1627..... in the hillfort of Shivner..... father- Jagirdar, Mother- Jijabai- a religious lady..... influenced by Guru Ramdas learnt horse riding, swimming, use of weapons at a young age..... won the fort of Toran, built a strong fort at Durg.... killed Afzal Khan..... Aurangzeb sent Shaista Khan but lost the battle..... became independent king..... source of inspiration.

विषय - हिन्दी

प्र०-1. निम्नलिखित पठित पद्यांश के आधार पर प्रश्नों के उत्तर लिखें:

दीरघ दोहा अरथ के, आखर थोरे आहिं ।

ज्यों रहीम नट कुंडली, सिमिटि कूदि चढ़ी जाहिं । ।

1. नट किस कला में सिद्ध होने के कारण ऊपर चढ़ जाता है?

2. दोहे छंद की विशेषता क्या है?

प्र०-2. निम्नलिखित पठित पद्यांश के आधार पर उचित विकल्प लिखें:

ऐसी लाल तुझ बिनु कउनु करै।

गरीब निवाजु गुसईआ मेरा माथै छत्रु धरै ॥

जाकी छोति जगत कउ लागै ता पर तुहीं ढरै।

नीचहु ऊच करै मेरा गोबिंदु काहू ते न डरै॥

नामदेव कबीरू तिलोचनु सधना सैनु तरे।

कहि रविदासु सुनहु रे संतहु हरिजीउ ते सभै सरै॥

प्रस्तुत पद्यांश में रैदास जी ने गरीब निवाजु किसको कहा है

क) श्री कृष्ण

ख) राम

ग) प्रेम

घ) देवी मां

रैदास ने खुद को दास तो भगवान को क्या बोला

क) राजा

ख) मालिक

ग) पिता

घ) बड़ा भाई

रैदास किसकी तरह अपने प्रभु की भक्ति करते हैं

क) दास

- ख) सेवक
- ग) भिक्षुक
- घ) बेटा

रैदास के अनुसार उनके प्रभु गरीब लोगों पर किस प्रकार की कृपा करते हैं

- क) धन धान्य से समृद्ध कर देते हैं
- ख) उनकी सारी ख्वाहिश पूरी करते हैं
- ग) उनको सदबुद्धि देते हैं
- घ) उपर्युक्त सभी

रैदास ने अपने पद्यांश में निम्न में से किस महापुरुष का नाम लिया है

- क) कबीर
- ख) रहीम
- ग) मीराबाई
- घ) गांधी जी

प्र०-3. निम्नलिखित पठित पद्यांश के आधार पर उचित विकल्प लिखें:

मेरी साँस मानो रुक गई थी। मुझे विचार कौंधा कि सफलता बहुत नजदीक है। 23 मई, 1984 के दिन दोपहर को एक बजकर सात मिनट पर मैं एवरेस्ट की चोटी पर खड़ी थी। एवरेस्ट की चोटी पर पहुंचने वाली मैं प्रथम भारतीय महिला थी। एवरेस्ट शकु की चोटी पर इतनी जगह नहीं थी कि दो व्यक्ति साथ-साथ खड़े हो सकें। चारों तरफ हजारों मीटर लंबी सोधी ढलान को देखते हुए हमारे सामने प्रश्न सुरक्षा का था। हमने पहले बर्फ के फावड़े से बर्फ की खुदाई कर अपने आपको सुरक्षित रूप से स्थिर किया। इसके बाद, मैं घुटनों के बल बैठी, बर्फ पर अपने माथे को लगाकर मैंने 'सागरमाथे के ताज का चुंबन लिया। बिना उठे ही मैंने अपने थैले से दुर्गा माँ का चित्र और हनुमान चालीसा निकाला। मैंने इनको अपने साथ लाए लाल कपड़े में लपेटा, छोटी सी पूजा-अर्चना की और इनको बर्फ में दबा दिया।

किसको साँस रुक गई प्रतीत हुई

- क) बचेंद्रीपाल को
- ख) दर्शक को
- ग) अन्य पर्वतारोही को
- घ) किसी को नहीं

लेखिका कब एवरेस्ट की चोटी पर पहुंची

- क) 23 मई 1984 को
- ख) दोपहर एक बजकर सात मिनट पर
- ग) क-ख दोनों
- घ) सायंकाल

एवरेस्ट की चोटी कैसी थी

- क) शंकु
- ख) आयताकार
- ग) गोल
- घ) चपटी

लेखिका ने वहाँ क्या काम किया

- क) बर्फ की फावड़े से खुदाई की
- ख) घुटनों के बल बैठी
- ग) बर्फ को माथे से लगाया
- घ) उपर्युक्त सभी काम

सागरमथे को चूमने के बाद बचेंद्रीपाल ने क्या धार्मिक क्रियाएँ कीं

- क) थैले से माँ दुर्गा का चित्र और हनुमान चालीस निकाला
- ख) उन्हें लाल कपड़े में लपेटा
- ग) छोटी-सी पूजा-अर्चना की
- घ) ये सभी काम

(भाषा खंड)

- प्र०-4. शब्द और पद में क्या अंतर है? उदाहरण सहित स्पष्ट करें।
- प्र०-5. निम्न शब्दों में उचित स्थान पर अनुस्वार या अनुनासिक का प्रयोग करें-
लहगा, गगा, दात, सदेह, चचल, महिलाए, कपन, हसमुख
- प्र०-6. क) निम्न शब्दों में से मूल शब्द व उपसर्ग अलग करें-
अनुपस्थित, निर्मल, अपहरण, प्रदूषण
ख) निम्न शब्दों में से मूल शब्द व प्रत्यय अलग करें-
द्रवित, राष्ट्रीय, तैनाती, पुष्पित
- प्र०-7. अनुच्छेद लिखें-
- क) **विज्ञापन का महत्त्व** - ०विज्ञापन क्या है ०विज्ञापन की उपयोगिता
०आधुनिक विज्ञापन के दोष
- ख) **बच्चों की शिक्षा में माता-पिता की भूमिका** - ०शिक्षा का महत्त्व ०माता-
पिता का दायित्व ०कुछ सुझाव
- ग) **पहला सुख निरोगी काया** - ० आधुनिक जीवन- शैली ० सुख और दुख शरीर में
ही ० व्यायाम और स्वास्थ्य
- घ) **भारत में नारी , नहीं रही बेचारी** - ० आधुनिक नारी ० अधिकारों की पहचान
० समाज को सशक्त बनाने में योगदान
- प्र०-8. १)अपने मित्र को परीक्षा में सफल होने पर बधाई-पत्र लिखें ।
२) अपने छोटे भाई को पत्र लिखें जिसमें उसे अध्ययनशील होने की सलाह दी
गई हो।
३) वाद-विवाद प्रतियोगिता में प्रथम आने पर अपने मित्र को बधाई-पत्र लिखें ।
४) अस्पताल में दाखिल हुए अपने किसी दुर्घटनाग्रस्त मित्र को सांत्वना देते हुए एक पत्र लिखिए।

नोट : ग्रीष्मावकाश गृहकार्य हिंदी की कक्षा परीक्षा की पुस्तिका में करें ।

सामायिक परीक्षा-1 का सम्पूर्ण पाठ्यक्रम याद करें ।

NUMBER SYSTEMS

Very Short Answer Type Questions

- Express $0.\bar{6}$ in the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$.
- Divide $8\sqrt{15}$ by $2\sqrt{3}$.
- Simplify : $(\sqrt{3} + \sqrt{7})^2$
- Rationalise the denominator of : $\frac{1}{\sqrt{5} + \sqrt{2}}$
- Simplify : $16^{\frac{3}{4}}$

Short Answer Type Questions

- Find three different irrational numbers between the rational numbers $\frac{5}{7}$ and $\frac{9}{11}$.
- Simplify : $13^{\frac{1}{5}} \times 17^{\frac{1}{5}}$
- If both a and b are rational numbers, find the values of a and b if $\frac{\sqrt{3}-1}{\sqrt{3}+1} = a + b\sqrt{3}$.

Long Answer Type Questions

- Evaluate $\frac{15}{\sqrt{10} + \sqrt{20} + \sqrt{40} - \sqrt{5} - \sqrt{80}}$, given that $\sqrt{5} = 2.236$ and $\sqrt{10} = 3.162$.
- Simplify : $\left(\frac{81}{16}\right)^{-\frac{3}{4}} \times \left[\left(\frac{25}{9}\right)^{-\frac{3}{2}} + \left(\frac{5}{2}\right)^{-3}\right]$

Answers

- | | | | | |
|---|--------------------------|----------------------|------------------------------------|-------|
| 1. $\frac{2}{3}$ | 2. $4\sqrt{5}$ | 3. $10 + 2\sqrt{21}$ | 4. $\frac{\sqrt{5} - \sqrt{2}}{3}$ | 5. 8 |
| 6. 0.75075007500075000075....., 0.767076700767000767....., 0.808008000800008..... | 7. $(221)^{\frac{1}{5}}$ | 8. $a = 2; b = -1$ | 9. 5.398 | 10. 1 |

POLYNOMIALS

Very Short Answer Type Questions

- Find the value of the polynomial $5x - 4x^2 + 3$ at $x = -1$.
- Find the remainder when $x^4 + x^3 - 2x^2 + x + 1$ is divided by $(x - 1)$.
- Factorise $6x^2 + 17x + 5$ by splitting the middle term and by using the factor theorem.
- Factorise : $x^3 + 13x^2 + 32x + 20$
- Evaluate $(999)^3$

Short Answer Type Questions

- Factorise : $27x^3 + y^3 + z^3 - 9xyz$
- If $a^2 + b^2 + c^2 = 250$ and $ab + bc + ca = 3$, find $a + b + c$.
- If $x^2 + \frac{1}{x^2} = 83$, find the value of $x^3 - \frac{1}{x^3}$.

Long Answer Type Questions

- Without actually calculating the cubes, find the value of : $(28)^3 + (-15)^3 + (-13)^3$
- Factorise : $27p^3 - \frac{1}{216} - \frac{9}{2}p^2 + \frac{1}{4}p$

Answers

- | | | |
|-----------------------|--------------|--|
| 1. -6 | 2. 2 | 3. $(3x+1)(2x+5)$ |
| 4. $(x+1)(x+2)(x+10)$ | 5. 997002999 | 6. $(3x+y+z)(9x^2+y^2+z^2-3xy-yz-3xz)$ |
| 7. ± 16 | 8. 756 | 9. 16380 |
10. $\left(3p - \frac{1}{6}\right)\left(3p - \frac{1}{6}\right)\left(3p - \frac{1}{6}\right)$

COORDINATE GEOMETRY

Very Short Answer Type Questions

1. In which quadrant does the point $(5, -2)$ lie ?
2. What is the name of horizontal and vertical lines drawn to determine the position of any point in the cartesian plane ?
3. In which quadrant will the point lie, if the abscissa is -3 and the ordinate is -4 ?
4. On which axis does the point $(0, 4)$ lie ?
5. Write the name of quadrant in which x is positive and y is negative.

Short Answer Type Questions

6. Plot the points $(-1, 0)$, $(1, 0)$, $(1, 1)$, $(0, 2)$, $(-1, 1)$ and join them in order. What figure do you get ?
7. Plot the points $A(4, 4)$, $B(-4, 4)$ and join OA , OB and BA . What figure do you obtain ?
8. Plot the points $A(1, 3)$, $B(1, -1)$, $C(7, -1)$ and $D(7, 3)$ on the graph paper. Join them respectively and name the figure so formed. Find its area.

Long Answer Type Questions

9. The base AB of two equilateral triangles ABC and ABC' with length $2a$ lies along the x -axis such that the mid point of AB is at the origin as shown in Fig. 3.1. Find the coordinates of the vertices C and C' of the two triangles.

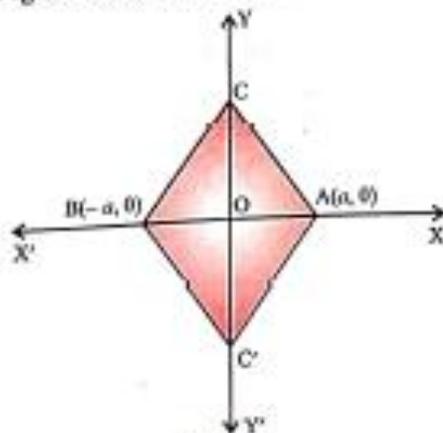


Fig. 3.1

10. Plot the points (x, y) given in the following table choosing suitable units of distance on the axes.

Point \rightarrow	A	B	C	D	E
x	-2	-1	0	1	3
y	8	7	-1.25	3	-1

(i) Write the coordinates of the points A, B, C, D and E.

(ii) Shade the triangle ABC.

Answers

- IV quadrant
- X-axis and Y-axis
- III quadrant
- Y-axis
- IV quadrant
- Pentagon
- Isosceles triangle
- Rectangle, 24 sq. units
- $(0, \sqrt{3} a), (0, -\sqrt{3} a)$
- Positions of the points are shown by dots in Fig. 3.2 given below :

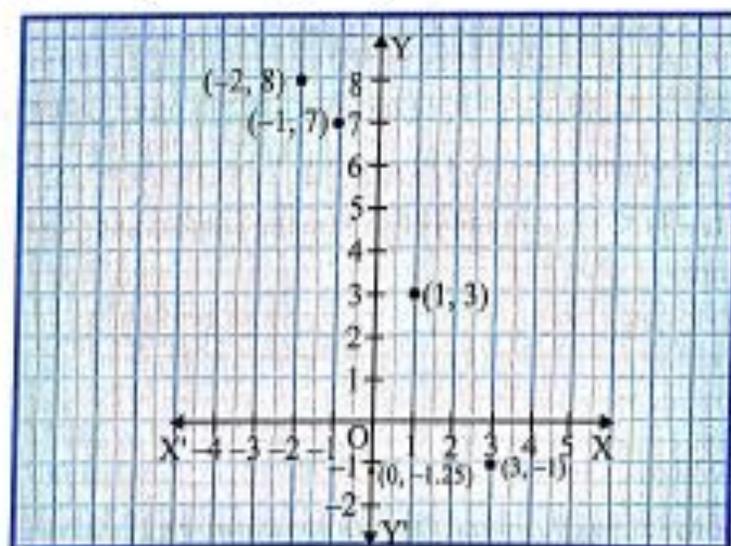


Fig. 3.2

LINEAR EQUATIONS IN TWO VARIABLES

Very Short Answer Type Questions

- Find the value of k if $x = 2, y = 1$ is a solution of the equation $2x + 3y = k$.
- If the point $(3, 4)$ lies on the graph of the equation $3y = ax + 7$, then find the value of a .
- Express $x - \frac{y}{5} - 10 = 0$ in the form of $ax + by + c = 0$.
- Check whether $(\sqrt{2}, 4\sqrt{2})$ is the solution of the equation $x - 2y = 4$.
- Find the value of ' a ' so that $x = 1, y = 1$ is a solution of equation $5x + 3y = a$.

Short Answer Type Questions

- Draw the graph of $x + y = 4$.
- Give the equations of two lines passing through $(2, 14)$. How many more such lines are there?
- The angles of a triangle are $5(x - 1)$, $3(2x - 5)$ and $9x$. Find x and assign a name to the triangle.

Long Answer Type Questions

9. Solve for x : $\frac{x^2 + 5x + 6}{x^2 + 4x + 4} = \frac{3x + 1}{5x - 2}, x \neq -2, \frac{2}{5}$

10. The taxi fare in a city is as follows :

For the first kilometre, the fare is Rs.8 and for the subsequent distance, it is Rs. 5 per km. Taking the distance covered as x km and the total fare as Rs. y , write a linear equation for this information and draw its graph.

Answers

- | | | |
|---|------------------|--|
| 1. $k = 7$ | 2. $\frac{5}{3}$ | 3. $5x - y - 50 = 0$ |
| 4. No | 5. $a = 8$ | 7. $7x - y = 0$ and $x + y = 16$; Infinitely many |
| 8. $x = 10^\circ$; Isosceles right angled triangle | | 9. $x = 1, -4$ |
| 10. $5x - y + 3 = 0$ | | |

INTRODUCTION TO EUCLID'S GEOMETRY

Very Short Answer Type Questions

1. Can two distinct lines have more than one point in common?
2. Can a terminated line be produced indefinitely?
3. What is an axiom? Give one example.
4. What are theorems?
5. l, m, n are lines in the same plane. If l intersects m and $n \parallel m$, show that l also intersects n .

Short Answer Type Questions

6. l and m are intersecting lines, $p \parallel l$ and $q \parallel m$, show that p and q also intersect.
7. In Fig. 5.1, AB, BC and AC are three line segments forming a triangle ABC such that $AB = 12$ cm, $BC = 5$ cm and $AC = 13$ cm. Verify that $AB^2 + BC^2 = AC^2$.
8. If a point C lies between two points A and B such that $AC = BC$, then prove that

$$AC = \frac{1}{2}AB.$$

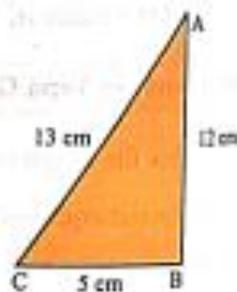


Fig. 5.1

Long Answer Type Questions

9. In Fig. 5.2, if $AC = BD$, then prove that $AB = CD$.



Fig. 5.2

10. AB is a line segment 10 cm long. C is a point in its interior such that $AC = 4$ cm. Then find
(i) BC (ii) $AB^2 - AC^2$ (iii) $AB^2 - BC^2$ (iv) $AC^2 + BC^2 - 2AC \cdot BC$

Answers

1. No
2. Yes
10. (i) 6 cm (ii) 84 cm² (iii) 64 cm² (iv) 4 cm².

SCIENCE

PHYSICS

- ❖ Do written practice of graphical derivation of equations of motion.
- ❖ Practice of numerical questions based on distance, displacement, speed, velocity, acceleration and equations of motion.
- ❖ Revise all NCERT and NCERT EXEMPLAR objective and subjective type question answers of CHAPTER- MOTION

CHEMISTRY

- ❖ Revise and learn all the NCERT and NCERT EXEMPLAR objective and subjective type question answers of UNIT-1: MATTER IN OUR SURROUNDINGS
- ❖ Learn the names and symbols of compounds that are discussed in ch-1

BIOLOGY

- ❖ Revise and learn all the NCERT and NCERT EXEMPLAR objective and subjective type question answers of UNIT-1: CELL-THE FUNDAMENTAL UNIT OF LIFE.
- ❖ Practice diagrams of plant cell, animal cell and nucleus.
- ❖ Revise full PT syllabus.

SOCIAL SCIENCE

Class 9th HHW

A. Download the outline map of France and locate map points (Bordeaux, Paris, Nantes and Marseille)

B. On the Outline Map of India, Label the following

Mountain Ranges : 1. The Karakoram,

2. The Zaskar,

3. The Shivalik,

4. The Aravali,

5. The Vindhya,

6. The Satpura,

7. Western

8. Eastern

Ghats

Mountain Peaks –

9. K2,

10. Kanchan Junga,

11. Anai Mudi

Plateau

12. Deccan Plateau

13. Chota Nagpur Plateau,

14. Malwa Plateau

Coastal Plains –

15. Konkan,

16. Malabar,

17. Coromandel

18. Northern Circars

(Location and Labelling)

C. Subject Enrichment Activity-

Project work (file) on Disaster Management.

REVISE YOUR PT1 SYLLABUS