

English Grade IX

Task 1:

Composition

Attempt on loose sheets

Write on any **two** of the following topics:

Description

1. Describe a long journey by car or public transport that passes through different kinds of scenery. (Remember that you can describe your fellow travellers as well as the scenery)

Argument

2. Do you think countries should spend money on saving wild animals from extinction? Give reasons and examples to support your views.

Narrative

3. Write a story which includes the words, "I hadn't spoken to my sister for some time but on this occasion I just had to call her."

Task 2:

Read the two inserts and attempt the attached past paper for practice.

Read **Passage 1** in the insert and answer all the questions below.

1 (a) Notes

Identify and write down the information from the passage which describe the ways in which gold was important through the ages, and explain the uses and attractions of gold in modern times.

USE THE MATERIAL FROM THE WHOLE PASSAGE.

At this stage, you need **not** use your own words. To help you get started, the first point in each section of notes is done for you.

You will be awarded up to **12** marks for content points.

MAIN POINTS:

Ways in which gold was important through the ages

- Pieces of gold exchanged as a system of payment which replaced bartering

The uses and attractions of gold in modern times

- Is used in (modern) dentistry because it is malleable / has aesthetic properties

(b) Summary [10 marks]

Now use your notes from 1(a) to write a summary in which you describe the ways in which gold was important through the ages and explain the uses and attractions of gold in modern times, as outlined in the passage.

Use your own words as far as possible. You will be awarded marks for producing a piece of writing which is relevant, well organized and easy to follow.

Your summary must be in continuous writing (not note form) You are advised to write between 150 or 180 words, including the 10 words given below.

Begin your summary as follows:

Gold was always an important commodity in former times because

2 Re-read paragraph 4

Identify and write all three opinions from this paragraph.

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[3]

Total marks for Section 2 [25]

Section 2: Reading for Meaning

3 Read **Passage 2** in the insert and answer **all** the questions below.

From paragraph 1:

(a) Why did the pile of straw heave 'gently and rhythmically'?

.....[1]

(b) Why did the writer feel justified in disturbing the creature?

.....

.....[1]

(c) Why was the animal in a hurry 'to release itself from its cocoon of straw'?

.....[1]

(d) The animal 'dived back into the straw'. What had it hoped would happen?

.....

.....[1]

4 From paragraph 2:

(a) Explain in your own words why, even before the babies were brought to him, the writer had 'ample opportunity' to get to know kusimanses properly.

.....

.....[1]

(b) The writer fed the babies with cotton wool dipped in milk. What was the problem he encountered?

.....

.....[1]

5 From paragraph 3

(a) What effect is created by the word 'sprawling' that would not be created by, for example, 'lying'?

.....
.....[1]

(b) Which physical development meant that the babies were able to see 'the world that lay outside their basket'?

.....[1]

(c) Pick out and write down the three consecutive words which indicate the sudden way in which the babies were prevented from seeing 'the world that lay outside their basket'.

.....[1]

6 From paragraph 4

(a) What does the word 'merely' suggest about the many troubles the writer would have with the kusimanses in the future?

.....
.....[1]

(b) Why do you think 'the Bandits' was an appropriate name for the kusimanses?

.....
.....[1]

(c) Explain in your own words why, according to the writer, the kusimanses 'grew fast'.

.....
.....[1]

(d) The writer refers to the 'state' of the kusimanses. What exactly was this 'state'?

.....
.....[1]

7 From paragraph 5

(a) What evidence is there to suggest that Colly was a 'vain creature'?

.....
..... [1]

(b) The Bandits decided that Colly's tail was 'a tasty morsel of something or other'. What does this suggest about their attitude to food?

..... [1]

(c) Explain fully why the kusimanses were 'three feet off the ground'.

..... [1]

From the whole passage

Choose **five** of the following words. For each of the words circle the letter, (A, B, C or D) which has the same meaning that the word or phrase has in the passage.

(a) **captivated** (line 1)

A amazed B fascinated C imprisoned D surprised [1]

(b) **appraised** (line 5)

A evaluated B honoured C saw D studied [1]

(c) **alas** (line 25)

A unfortunately B however C nevertheless D in vain [1]

(d) **apparently** (line 35)

A it appeared B obviously C really D seemingly [1]

(e) **regret** (line 41)

A sorrow B loss C remorse D guilt [1]

- 8 Re read paragraph 3 and 6 which contain phrases that tell us about the behavior or feelings of the writer.

Explain:

- the meaning of the phrases as they are used in the passage
- the effect of the phrases as they are used in the passage

a) "sprawling on their bed of dried leaves" (line 19)

Meaning:

Effect: [2]

b) "It was with a feeling of relief as well as regret" (lines 40)

Meaning:

Effect: [2]

Total marks for section 2 : [25]

1. Throughout the history of our planet, gold has been valued; almost every established culture has used gold to symbolise power, beauty and happiness. Over 6000 years ago, pieces of gold were exchanged as a system of payment which replaced bartering. Much later, the first gold coins were minted; they were an innovative way to conduct transactions because they were both portable and easy to count. The Venetians introduced the gold ducat in 1284 and it became the most popular coin in the world for more than 500 years. 5
2. Gold was considered by ancient peoples to have medicinal properties: the Ancient Chinese treated diseases such as smallpox and measles with medicines containing gold, in & traditional Indian medicine drinks sprinkled with gold were thought to have healing effects. As early as 700 BC, Etruscan 'dentists' worked with gold, simply for aesthetic purposes rather than for repair work, by using it to fasten replacement teeth into patients' mouths. In fourteenth-century Europe, molten gold mixed with crushed emeralds was seen as a cure for bubonic plague, although this remedy was obviously limited to the wealthy. 10
3. In former times, gold was associated with religion. Because of the Egyptians' belief that gold was the skin of their sun god, Ra, it was unavailable in Egypt to all except the pharaoh. The Incas of Peru saw gold as representing the glory of their own sun god and called it 'tears of the sun'. However, although there are more than 400 references to gold in the books of the Jewish Old Testament, one of the worst betrayals recorded was the decision by some people to worship a golden calf instead of their own god. In all of these contexts, gold was not seen as having a monetary value, so its attraction was purely aesthetic. 15
4. Gold is a beautiful bright yellow colour and, because it does not tarnish in air or water, it has been used since ancient times to make jewellery in the form of rings, bracelets, earrings and necklaces for both men and women, depending on local custom. Everybody loves gold jewellery. So important was gold to people that, around 300 BC, the Greeks began the practice of alchemy, an attempt to turn cheap metals into gold. Although it was never successful, alchemy continued for almost 2000 years and is seen as the foundation of modern chemistry. 20
5. In more recent times, gold has continued to have its attractions. Because it is malleable and therefore easy to work with, as well as having aesthetic properties, it is still used in dentistry. Replacing teeth with iron would be possible, but who wants a rusty smile? As a drug which can alleviate swelling caused by arthritis, gold is used in modern medicine, and particles of gold implanted in human tissue can serve as radiation therapy in the treatment of certain cancers. Many surgical instruments are made of gold because, again, it does not corrode and it can be easily sterilised, thereby reducing the risk of infection during and after surgery. 25
6. Because it conducts electricity and is easy to work with, gold is invaluable in modern electronics. In fact, a small amount is used in all sophisticated electronic gadgets such as cell phones and computers. The importance of high quality and reliable performance justifies the relatively high cost. Space travel requires vehicles that travel without the possibility of maintenance or repair, which is why gold, as a highly dependable material, has been used in many ways in the manufacture of every spacecraft ever launched. 30
7. Gold leaf – gold hammered into thin sheets – is used for decorating, or gilding, objects such as picture frames and furniture. It is used in luxury cooking in, for example, desserts and confectionery, such as Mithai, unique confectionery made in Eastern Asia for auspicious occasions. Highly skilled craftsmen use gold to adorn buildings: the splendid Sultan Omar Ali Saifuddin Mosque in Brunei and the Golden Temple of Amritsar in India are decorated with gold, ranking them among the most magnificent buildings in the world. Beautiful glass can be manufactured with gold: suspending a small amount in glass produces a rich, ruby colour, as in the famous glass from Murano, near Venice. More practical application for adding gold to glass is in the use of gold as a coating on windows to reflect the sun's rays, thus keeping buildings cool in summer. 35

Passage 2-The Bandits

1. I was first captivated by the kusimanse, a mongoose-like animal, when I saw one asleep in a zoo under a pile of straw that heaved gently and rhythmically. As this was a creature I was likely to meet on my forthcoming trip to photograph animals in their natural habitat, I felt justified in disturbing it by rattling my thumbnail along the bars of the cage. Movement took place in the straw, and a little face appraised me for a moment; noticing the nuts I held tentatively near the bars, the animal uttered a faint shriek and struggled madly to release itself from its cocoon of straw. It ate the nuts on offer and, as soon as it realized that no more tidbits were forthcoming, it gave a long-suffering sigh and dived back into the straw. 5
2. Three months later, on my trip, I had ample opportunity to get to know kusimanses properly. I often saw them when I was sitting in concealment in the forest waiting for animals to show up. Then one morning a colleague brought me a basket of three baby kusimanses; they had been found abandoned and in need of human parenting. I started teaching them to feed, by wrapping some cotton wool round a matchstick and dipping it in milk, so that the babies would suck on it. However, they struggled and squeaked, and every time I pushed the cotton wool into their mouths they frantically spat it out again. Did they think that I was some sort of monster endeavoring to choke them? I wondered if I had not got more than I had bargained for. Luckily, it was not long before they discovered that the cotton wool contained milk, but then they sucked so hard that unfortunately even the cotton wool disappeared down their throats. 15
3. For the first week they spent most of the day sprawling on their bed of dried leaves in their basket beside my bed, scrambling excitedly around inside the basket at meal times. However, soon their front teeth appeared and, as their legs got stronger, they became more eager to see world that lay outside their basket, and I would put them on my bed so that they could have a walk around. However, I called an abrupt halt to this habit when they discovered my bare foot sticking out from under the bedclothes and decided that if they bit my toe hard enough it might produce milk. 20
4. This was, alas, merely the first of the many troubles in store for me. Very soon the kusimanses had become such a nuisance that I named them the Bandits. They grew fast because their appetites seemed insatiable. Consequently, their lives turned into one long quest for food. One of the things of which they made a light snack was their basket lid. Having demolished this they hauled themselves out and went on a tour of inspection round the camp. With unerring accuracy, they made their way to the one place where they could do the maximum damage in the minimum time: the kitchen. They broke a dozen eggs and, to judge by the state of them, rolled in the contents. 25 30
5. There was also a tame monkey, a somewhat vain creature called Colly, who had befriended us. One afternoon she decided, having spent a lot of her time grooming her lovely coat and long plume-like tail, to enjoy a siesta. She lay like a sunbather, her hands folded neatly on her chest. Unfortunately, just as she was falling asleep, the Bandits appeared on the scene. When they saw Colly's tail lying on the ground, apparently not belonging to anyone, they decided it must be a tasty morsel of something or other that destiny had placed in their path, and so they rushed forward and sank their sharp little teeth into it. Colly gave a wild scream of fright and scrambled towards the top of a tree, but the Bandits were not going to be deprived without a struggle, and they hung on grimly. The higher Colly climbed, the higher she lifted the Bandits and, when eventually I got there, I found them hanging by their teeth, like some miniature trapeze artists, three feet off the ground. 35
6. Eventually, it was with a feeling of relief as well as regret that, our job done, we released the Bandits back into their natural habitat, although life without them would be considerably less exciting.

Grade IX
Practice Worksheet No. 1 (OL)

Concepts covered:

Indices and Standard Forms
Linear Inequalities in One Variable



Name: _____ Sec: _____ Week No. _____ Date: _____

- 1 (a) Evaluate $3^{-2} \times 3^4$.
 (b) Evaluate $3 - 3^0$.
 (c) Simplify $y^{\frac{1}{2}} \times 4y^{\frac{1}{4}}$.
- 2 (a) Write the number 0.000 23 in standard form.
 (b) Evaluate $8 \times 10^9 - 9 \times 10^8$.
 Give your answer in standard form.
- 3 (a) Evaluate.
 (i) $36^{\frac{1}{2}}$
 (ii) 5^{-2}
 (b) $2^2 \times 8^{\frac{5}{3}} = 2^k$
 Find the value of k .
- 4 (a) Write 0.000 084 5 in standard form.
 (b) $p = 2.7 \times 10^{11}$ $q = 9 \times 10^{12}$
 Evaluate the following.
 Give each answer in standard form.
 (i) $p + q$
 (ii) $p \div q$
- 5 (a) Convert 0.8 kilometres into millimetres.
 (b) Evaluate $(6.3 \times 10^6) \div (9 \times 10^2)$, giving your answer in standard form.
- 6 A large tank contained 2.3×10^6 litres of oil.
 During a 4 week period, 1.2×10^5 litres were used.
 (a) Calculate how many litres of oil remain in the tank after the 4 weeks.
 Give your answer in standard form.
 (b) Giving your answer in standard form, calculate the average number of litres used each week.
- 7 (a) Simplify $(3a^4)^2$.
 (b) Evaluate $\left(\frac{1}{4}\right)^{-2}$.
 (c) Given that $x^3 = 27^0$, find x .
 (d) Evaluate $\frac{12^{\frac{1}{2}}}{3^{\frac{3}{2}}}$.

- 8 (i) Solve the inequality $10 < 3(x+1) \leq 24$.
- (ii) State the number of integers, x , satisfying $10 < 3(x+1) \leq 24$.
- 9 It is given that $13 < 7 - 2x < 18$ has the solution $a < x < b$.
Find the values of a and b .
- 10 (a) Solve $\frac{3x-2}{5} = \frac{x}{3}$.
- (b) Given that y is an integer and $-3 < 2y - 6 < 4$, list the possible values of y .
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Grade IX
Practice Worksheet No. 2 (OL)

Concepts covered:

Arithmetic (Percentage, discount, money, commission, tax, simple interest, ratio)



Name: _____ Sec: _____ Week No. _____ Date: _____

- 1 (a) Amir buys a camera for \$250 and sells it for \$200.
Calculate his percentage loss.
- (b) Meera invests some money at a rate of 2% per year **simple interest**.
How many years does it take for her investment to double in value?

2 In 2017, Lauren had a monthly income of \$1800.

- (a) How much was her total income in 2017?
- (b) From her monthly income of \$1800, Lauren paid the following.

Rent	\$500
Bills	\$250
Food	\$120
Travel	\$240
Clothes	\$ 70

- (i) Each month, Lauren saved the rest of her income.

What percentage of the \$1800 did she save?

- (ii) Lauren's monthly rent was increased by 3.6%.

Calculate the new monthly rent.

- (c) In 2017, Lauren's monthly income of \$1800 was 25% less than her monthly income in 2016.

Calculate her monthly income in 2016.

3 (a) During a 20 week period in 2007, a bank made a profit of \$378 million.

- (i) Calculate the average profit it made each second.

- (ii) During the same 20 week period in 2008, the profit was \$945 million.

For this 20 week period, calculate the percentage increase in the profit from 2007 to 2008.

- (iii) Find the ratio of \$378 million to \$945 million.

Give your answer in the form $m : n$, where m and n

- (b) Mary changed 480 euros into dollars.

The exchange rate was \$1 = 0.6 euros.

The bank took, as commission, 2% of the amount that had been changed.

Calculate the number of **dollars** the bank took as commission.

4 Neema travels on a business trip.

- (a) The total cost of her flight is \$406 including tax.
The cost of the flight excluding tax is \$350.

Calculate the tax as a percentage of \$350.

- (b) Neema changes \$245 to euros (€) for the trip.
The exchange rate is \$1 = €0.73.

On the trip she spends €124.

When she returns, she changes the remaining euros back to dollars at a rate of \$1 = €0.76.

Calculate the amount of money she receives.
Give your answer correct to the nearest dollar.

- (c) On her next trip, Neema hires a car.
She drives a total of 657 km in the car.
The car uses fuel at a rate of 4.3 litres per 100 km driven.
Neema pays \$1.29 per litre of fuel.

Calculate the amount she spends on fuel during the trip.


- (d) Neema stays in a hotel for 7 nights.
This is her hotel bill.

Item	Cost
7 nights at \$...... per night	\$805
4 dinners at \$...... each	\$......
Total before tax	\$......
Total including tax at 6.5%	\$996.84

Complete the missing values in the hotel bill.

- 5 (a) Ada and Bill own a company.
In 2008 Ada invests \$22 500 in the company and Bill invests \$37 500.
- (i) Express $22\,500 : 37\,500$ in the form $m : n$, where m and n are the smallest possible integers.
- (ii) The profit made by the company in 2008 is shared in the ratio of the amounts invested.
- Given that Ada's share of the profit is \$3 600, calculate the total profit made by the company.
- (iii) Ada's investment in 2008 is $12\frac{1}{2}\%$ more than the amount she invested in 2007.
- Calculate the amount that Ada invested in 2007.

(b)

<p>LAWNMOWER</p> <p>\$2395</p> 	<p>Plan A: Deposit \$595 and 12 monthly payments of \$171.04</p> <p>Plan B: Deposit \$395 and 24 monthly payments of \$</p>
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- (i) Rashid buys one of these lawnmowers for \$2395.
Sayeed buys one of these lawnmowers using Plan A.
- In total, how much **more** than Rashid will Sayeed pay?
- (ii) When one of these lawnmowers is bought using Plan B, the total cost is \$3054.20.
- Calculate the monthly payment.
- (iii) In a sale, the price of the lawnmower is reduced from \$2395 to \$1595.
- Calculate the percentage discount.
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Grade IX
Practice Worksheet No. 3 (OL)

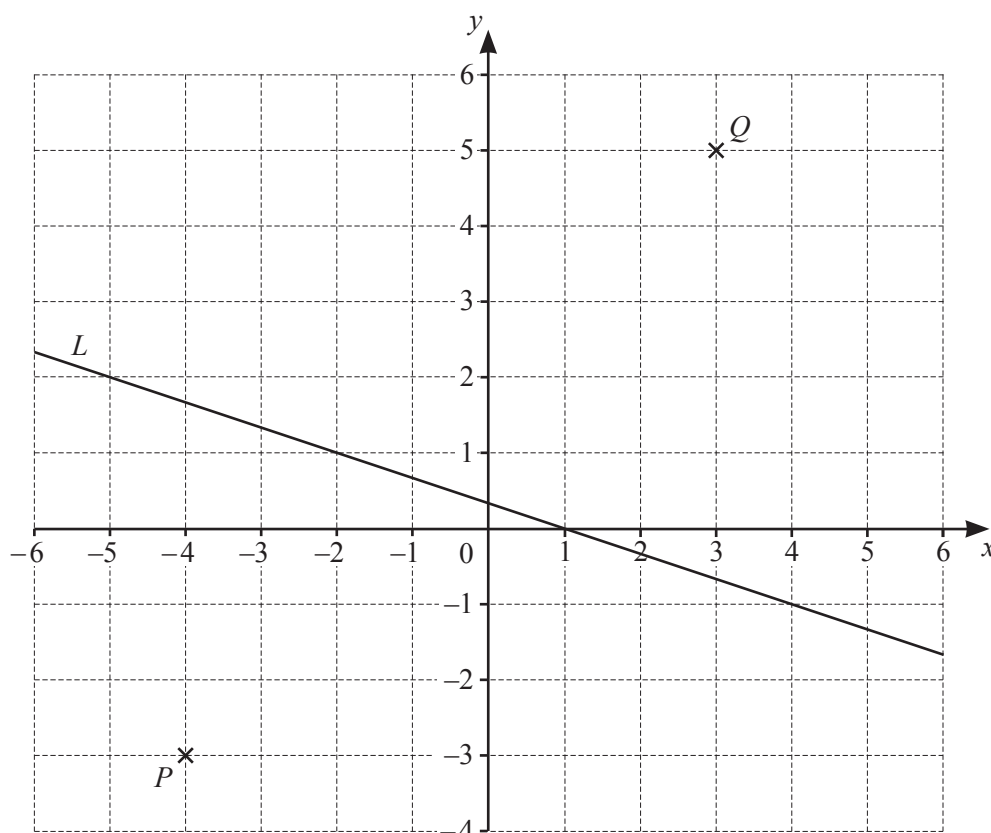


Concepts covered:

Quadratic Equations and Functions
Congruence and Similarity Tests
Area and Volume of Similar Figures and Solids
Coordinate Geometry

Name: _____ Sec: _____ Week No. _____ Date: _____

1



Points P and Q and the line L are shown on the grid.

- Calculate the length of PQ .
- Show that the equation of line L is $3y + x = 1$.
- Line M is perpendicular to line L and passes through point P .

Find the equation of line M .

Give your answer in the form $y = mx + c$.

- 2 A line segment, AB , joins $A(3, 2)$ to $B(-1, 10)$.

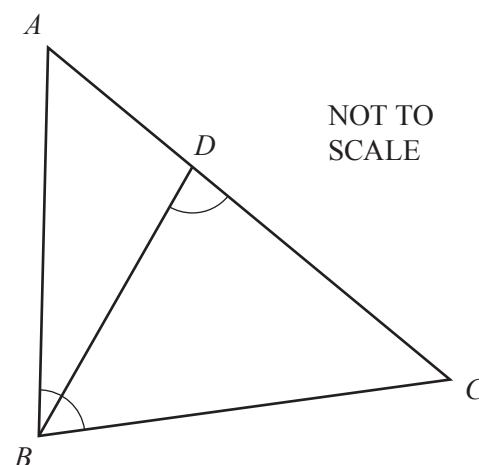
- Find the coordinates of the midpoint of AB .
- Find the equation of the perpendicular bisector of AB .

- 3 The points P and Q are $(4, 7)$ and $(8, -3)$ respectively.
Find

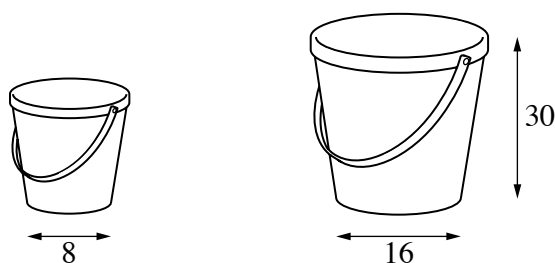
- the midpoint of PQ ,
- the length of PQ .

- 4 The diagram shows triangle ABC .
 D is a point on AC such that $\angle BDC = \angle ABC$.

- (a) Explain why triangle BDC is similar to triangle ABC .
 Give a reason for each statement you make.
- (b) $AC = 10$ cm, $BC = 8$ cm and $BD = 6$ cm.
 Calculate AB .

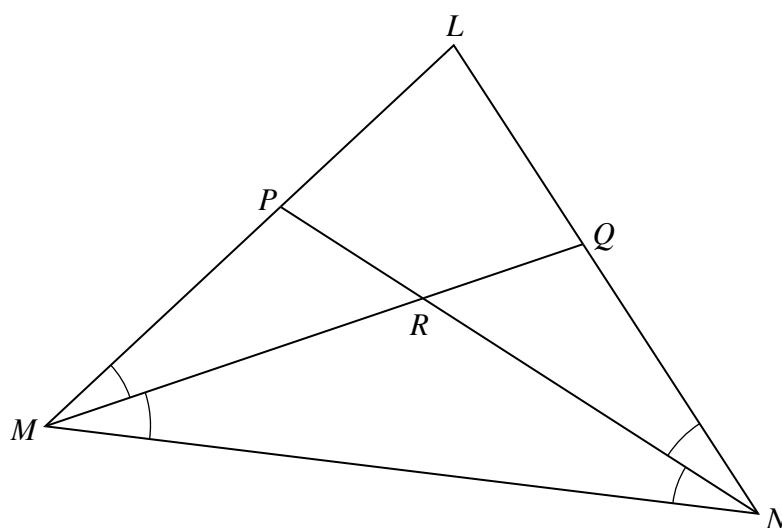


- 5 Similar buckets are available in two sizes.
 The large bucket has height 30 cm and base diameter 16 cm.
 The small bucket has base diameter 8 cm.



- (a) Find the height of the small bucket.
- (b) Given that the small bucket has volume 850 cm^3 , find the volume of the large bucket.

6



In the diagram, $\angle LMQ = \angle QMN = \angle MNP = \angle PNL$.

- (a) Show that triangles LMQ and LNP are congruent.
- (b) Show that $\angle MPN = \angle MQN$.
- (c) The straight lines MQ and NP intersect at R .
 State the name of the special quadrilateral $LPRQ$.

Hint:

When LMQ is congruent to LNP then

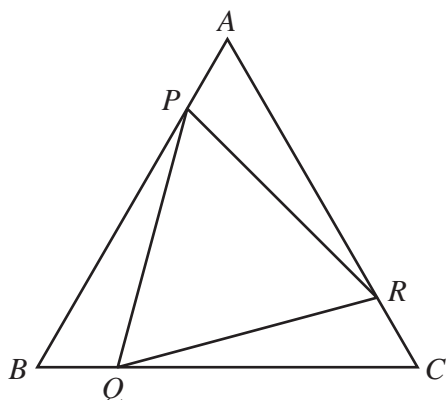
$\angle MQL = \angle NPL$...Corresponding angles of congruent triangles

Which implies

$\angle MPN = \angle MQN$ \angle s on a straight line

Use sum of \angle s in a triangle

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In the diagram, ABC is an equilateral triangle.

The points P , Q and R lie on AB , BC and CA respectively, such that $AP = BQ = CR$.

(i) Show that triangles APR , BQP and CRQ are congruent.

(ii) It is given that $AB = 5$ cm and $PQ = 4$ cm .

(a) Find $\frac{\text{Area of triangle } PQR}{\text{Area of triangle } ABC}$.

(b) Find $\frac{\text{Area of triangle } APR}{\text{Area of triangle } ABC}$.

Hint:

Equilateral triangle implies $\angle A = \angle B = \angle C = 60^\circ$

And

$AB = BC = CA$

implies $AR = BP = QC$ given that $AP = BQ = CR$

Prove using SAS property

(i) implies,

$$\angle BPQ = \angle RQC = \angle PRA$$

$$\angle BQP = \angle CRQ = \angle RPA$$

Which implies:

$$\angle PQR = \angle QRP = \angle RPQ = 60^\circ$$

Which indicates that PQR is also an equilateral triangle

Implies triangle PQR is similar to triangle ABC

8

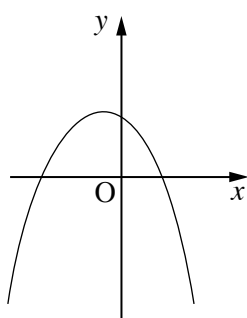


Figure 1

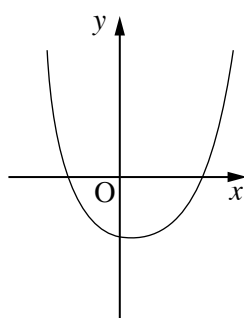


Figure 2

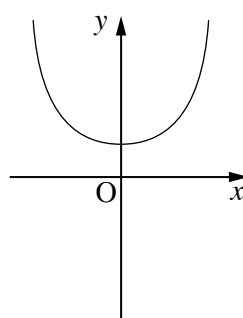


Figure 3

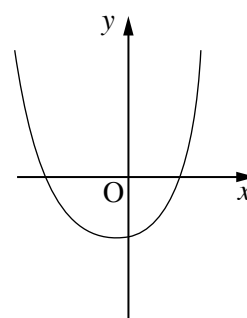


Figure 4

Which of the figures shown above could be the graph of

(a) $y = x^2 + 2$,

(b) $y = (x - 2)(x + 1)$,

(c) $y = 2 - x - x^2$?

(d) Solve the equation $3x^2 + 11x - 7 = 0$, giving each answer correct to 2 decimal places.

Grade IX
Practice Worksheet No. 4 (OL)

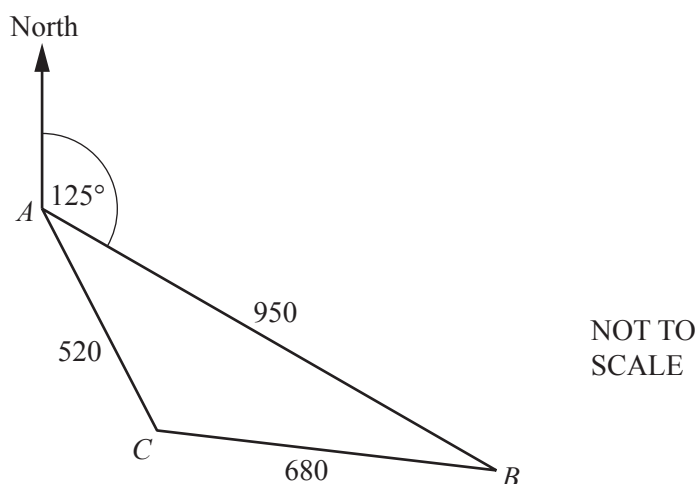
Concepts covered:

Trigonometry



Name: _____ Sec: _____ Week No. _____ Date: _____

1



The diagram shows the positions of three farms A , B and C on horizontal ground.

Farm B is on a bearing of 125° from farm A .

$AB = 950$ m, $BC = 680$ m and $AC = 520$ m.

(a) Show that $\hat{BAC} = 44.0^\circ$, correct to 1 decimal place.

(b) Calculate the bearing of A from C .

(c) Farm A and farm B are joined by a straight track AB .

Amira walks along the track from A at a constant speed of 4.6 km/h.

Calculate the time it takes for Amira to walk from A to the point that is closest to farm C .

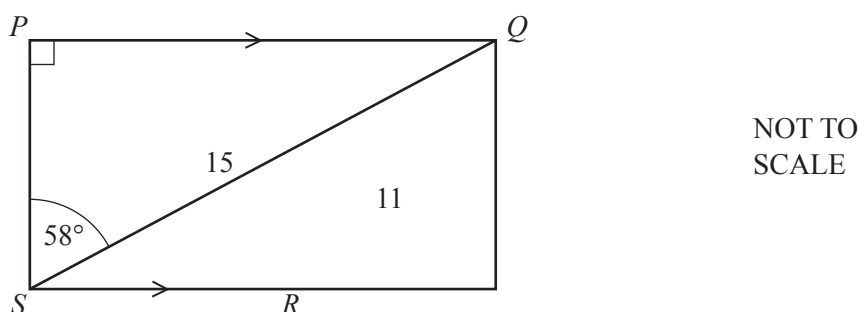
Give your answer in minutes and seconds, correct to the nearest second.

(d) A helicopter hovers vertically above farm B .

The angle of elevation of the helicopter from farm A is 10.7° .

Calculate the angle of elevation of the helicopter from farm C .

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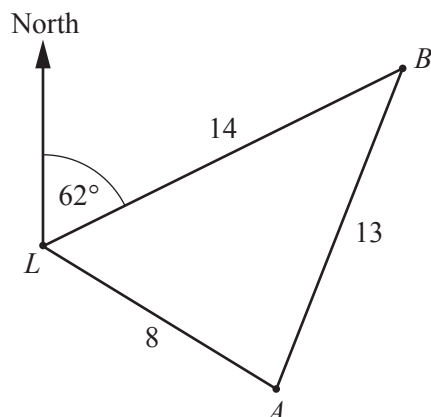


$PQRS$ is a trapezium with PQ parallel to SR and $\hat{SPQ} = 90^\circ$.

$SQ = 15$ cm, $QR = 11$ cm and $\hat{PSQ} = 58^\circ$.

Calculate PS .

3

NOT TO
SCALE

The diagram shows the positions of two ports, A and B , and a lighthouse L .

The bearing of B from L is 062° .

$AB = 13$ km, $BL = 14$ km and $AL = 8$ km.

(a) Calculate the bearing of A from L .

(b) A boat is located at C .

C is 11 km from B and $\hat{BCA} = 90^\circ$.

The boat travels to port A in a straight line.

Find the distance the boat travels.

(c) The boat then travels in a straight line from port A to port B .

It travels at an average speed of 3.75 km/h.

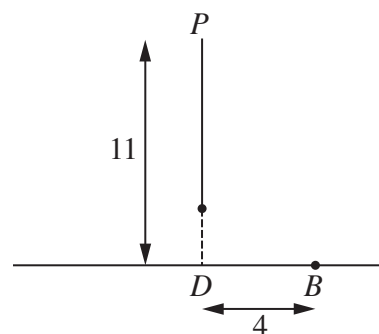
Calculate the time taken for the boat to travel from port A to port B .

Give your answer in hours and minutes.

- 4 (a) A heavy ball hangs from a point P ,
11 m above horizontal ground, by means
of a thin wire.

The point D is on the ground vertically below P .

The point B is on the ground 4 m from D .



(i) Calculate the angle of elevation of P from B .

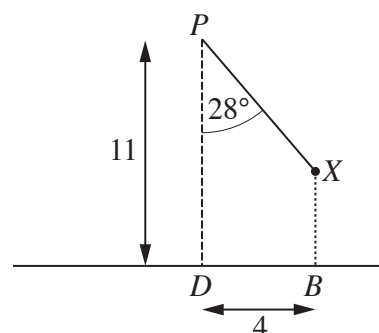
(ii) The ball swings, with the wire straight,
in the vertical plane PDB .

When the ball is at X , directly above B ,
 $\hat{DPX} = 28^\circ$.

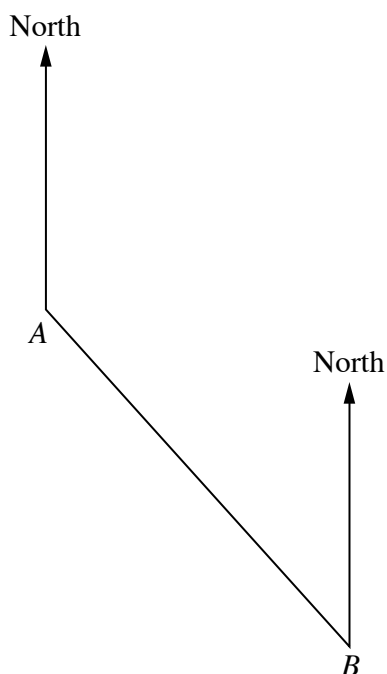
Calculate

(a) PX ,

(b) XB .



- 5 A sailing club has five moorings in the river at A , B , C , D and E .
 A and B are 12 metres apart.
 The positions of A and B are shown in the scale drawing below.



- (a) C is due west of B and on a bearing of 210° from A .
 Find and label the position of C
- (b) D lies north of the line AB .
 The triangle ABD is equilateral.

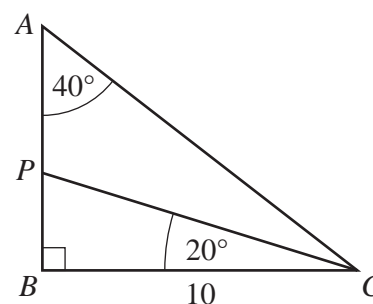
Using ruler and compasses only, construct triangle ABD .
 Show your construction arcs clearly.

- (c) The bearing of E from A is the same as the bearing of B from A .
 Given that $AB : AE = 3 : 5$, find and label the position of

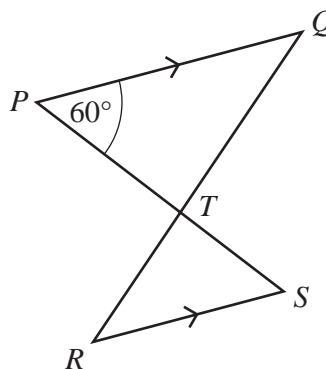
- 6 ABC is a triangle in which $\angle ABC = 90^\circ$, $\angle BAC = 40^\circ$
 and $BC = 10$ cm.
 P is the point on AB such that $\angle PCB = 20^\circ$.

Calculate

- (a) PB ,
 (b) AP ,
 (c) the perimeter of triangle PBC .

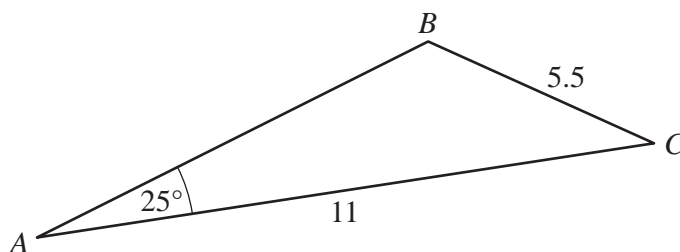


- 7 P, Q, R and S are four points on level ground.
 PQ is parallel to RS and $\hat{QPS} = 60^\circ$.
 PS and RQ intersect at T .



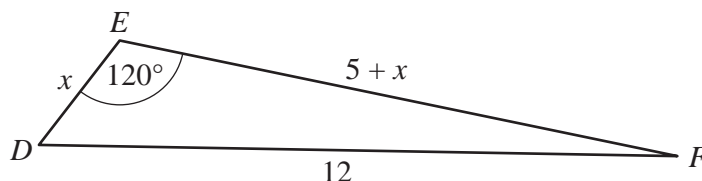
- (a) Write down the value of \hat{PSR} . Give a reason for your answer.
 (b) The bearing of Q from P is 070° .
 Find the bearing of
- S from P ,
 - P from S ,
 - R from S .
- (c) (i) Explain why triangles PQT and SRT are similar.
 (ii) Given that $PT = 54$ m, $TS = 36$ m and $RQ = 85$ m, find TQ .

8 (a)



In the diagram, $AC = 11$ cm, $BC = 5.5$ cm and $\hat{BAC} = 25^\circ$.
 It is given that \hat{ABC} is an **obtuse** angle.
 Calculate \hat{ABC} .

(b)



In the diagram, $DF = 12$ cm, $DE = x$ centimetres and $EF = (5 + x)$ centimetres.

- Form an equation in x and show that it reduces to $3x^2 + 15x - 119 = 0$.
- Solve the equation $3x^2 + 15x - 119 = 0$, giving each answer correct to 3 decimal places.
- Find the length of EF in millimetres, correct to the nearest millimetre.

سوال نمبر 1: مندرجہ ذیل عبارت کو غور سے پڑھیں اور جہاں تک ممکن ہو دیئے گئے سوالات کے جوابات اپنے الفاظ میں لکھیں۔

[25]

تفہیم

یہ ایک حقیقت ہے کہ انسان ذاتی خواہش اور نفع کے لئے دوڑ دھوپ کرتا ہے۔ بال بچوں کے آرام و آسائش کے لئے مشکل سے مشکل کام کرنے پر بھی آمادہ ہو جاتا ہے۔ لیکن بہترین انسان وہ ہے جو ذاتی منفعت کو بالائے طاق رکھ کر دوسروں کو فائدہ پہنچائے۔ اور ملک و قوم کی بہتری کے لئے کام کرے۔ ہماری تاریخ ایسی شخصیات کے کارناموں سے بھری پڑی ہے جنہوں نے مخلوق خدا کی بہتری کے لئے کام کئے۔ اپنا ہوا یا غیر سب کے دکھ درد میں شریک ہوئے۔ ایسی شخصیات میں عبدالستار ایدھی کا نام سرفہرست ہے۔ ہمیں فخر ہے کہ عالمی شہرت یافتہ عبدالستار ایدھی کا تعلق ہمارے وطن سے ہے۔

جسم پر ملیشیا کا جوڑا، سر پر لمبی ٹوپی اور پیروں میں سستے چپل پہنے عبدالستار ایدھی ہمیں پاکستان کی بڑی تقریب میں نظر آتے تو کبھی نیویارک کی سڑکوں اور لندن کے ایدھی فاؤنڈیشن کے دفتر کے باہر بڑی بیچ پر بیٹھے دکھائی دیتے تھے۔ یہ وہ شخصیت ہے جو لوگوں کے لئے ایک سایہ دار درخت کی مانند ہے۔ جس کی زندگی کا مقصد مذہب اور رنگ کی پرواہ کئے بغیر اللہ کے بندوں کو فیض پہنچانا ہے۔

عبدالستار ایدھی ۱۹۲۸ء میں بھارت کی ریاست کے ایک چھوٹے سے قصبے میں پیدا ہوئے۔ ان کی فطرت میں دوسروں کی محبت اور خدمت کا جذبہ کوٹ کوٹ کر بھرا ہوا تھا۔ بچپن میں ان کی والدہ سکول بھیجتے وقت ضرورت سے زائد ایک سکہ انہیں پکڑا دیتیں کہ کسی ضرورت مند کو دے دینا۔ قیام پاکستان کے وقت ان کی عمر اٹھارہ برس کی تھی۔ بھارت سے ہجرت کر کے پاکستان آئے تو یہاں مہاجرین کے لئے ڈسپنری ایدھی فاؤنڈیشن کے نام سے قائم کی۔ ایدھی فاؤنڈیشن ہر سال بیمار لوگوں کی دواؤں، ان کے کھانے پینے، یتیموں اور لاوارثوں کی پرورش، یتیم بچیوں کی شادی بیاہ، ایسبوالینس سروس، معذور اور مستحق لوگوں کی دیکھ بھال پر بے دریغ خرچ کرتی ہے۔ عبدالستار ایدھی کی ایک آواز پر لوگ کڑوڑوں روپوں سے اس ادارے کی مدد کے لئے ہمد وقت تیار رہتے تھے۔ رہتی دنیا تک ان کا نام لوگوں کے دلوں میں زندہ رہے گا۔

الف ایک بہترین انسان کی پہچان کیا ہے؟

[2]

ب عبدالستار ایدھی ہمیں مختلف جگہوں پر کس حالت میں دکھائی دیتے تھے؟

[3]

ج وہ لوگوں کے لئے ایک سایہ دار درخت کی مانند تھے۔ وضاحت کریں۔

[3]

د دوسروں سے محبت اور خدمت کا جذبہ ان کی شخصیت میں کیسے پیدا ہوا؟

[3]

ر ایدھی فاؤنڈیشن کی بنیاد کب اور کن حالات میں رکھی گئی؟

[4]

س ایدھی فاؤنڈیشن عوام الناس کی مدد کس طرح کرتی ہے؟

[4]

ش لوگ اس ادارے کی مدد کے لئے ہمیشہ کیوں تیار رہتے ہیں؟ [2]

ص کیا آپ عبدالستار ایدھی جیسے مثالی انسان بننا پسند کریں گے! کیوں؟ [2]

ض نیکی اور بھلائی کے کاموں کے فوائد تحریر کریں۔ [2]

مندرجہ ذیل عنوانات میں سے کسی ایک کے بارے میں مضمون لکھیں جو 300-400 الفاظ پر مشتمل ہو [25]

مضمون ویل

☆ گداگری کی بڑی وجہ لوگوں کی سستی کا ملبی اور محنت سے بچنا ہے۔

1

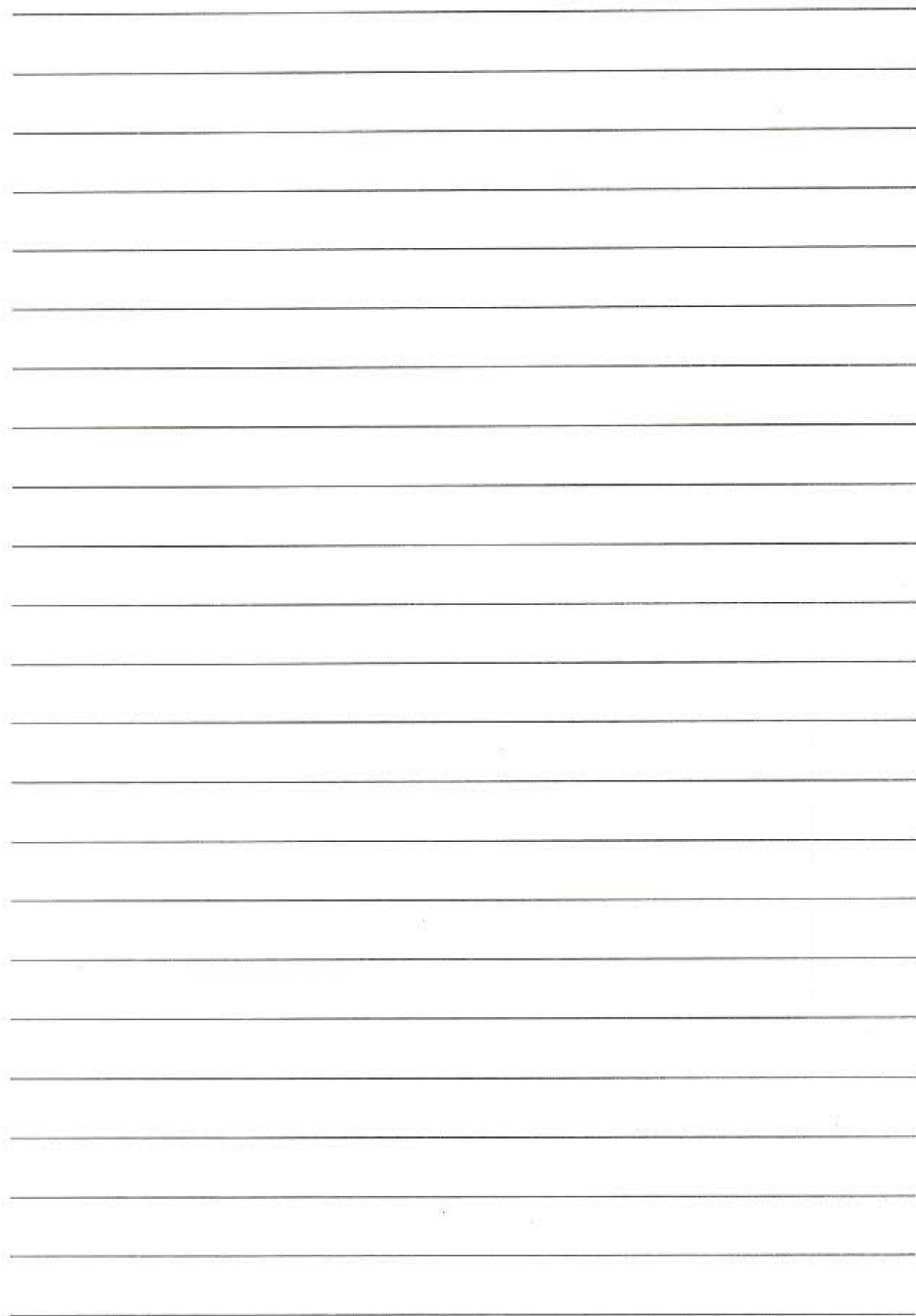
☆ انتخابات میں ذاتی نفع اور رشتہ داری کو مد نظر رکھ کر ووٹ دینا جرم ہے۔

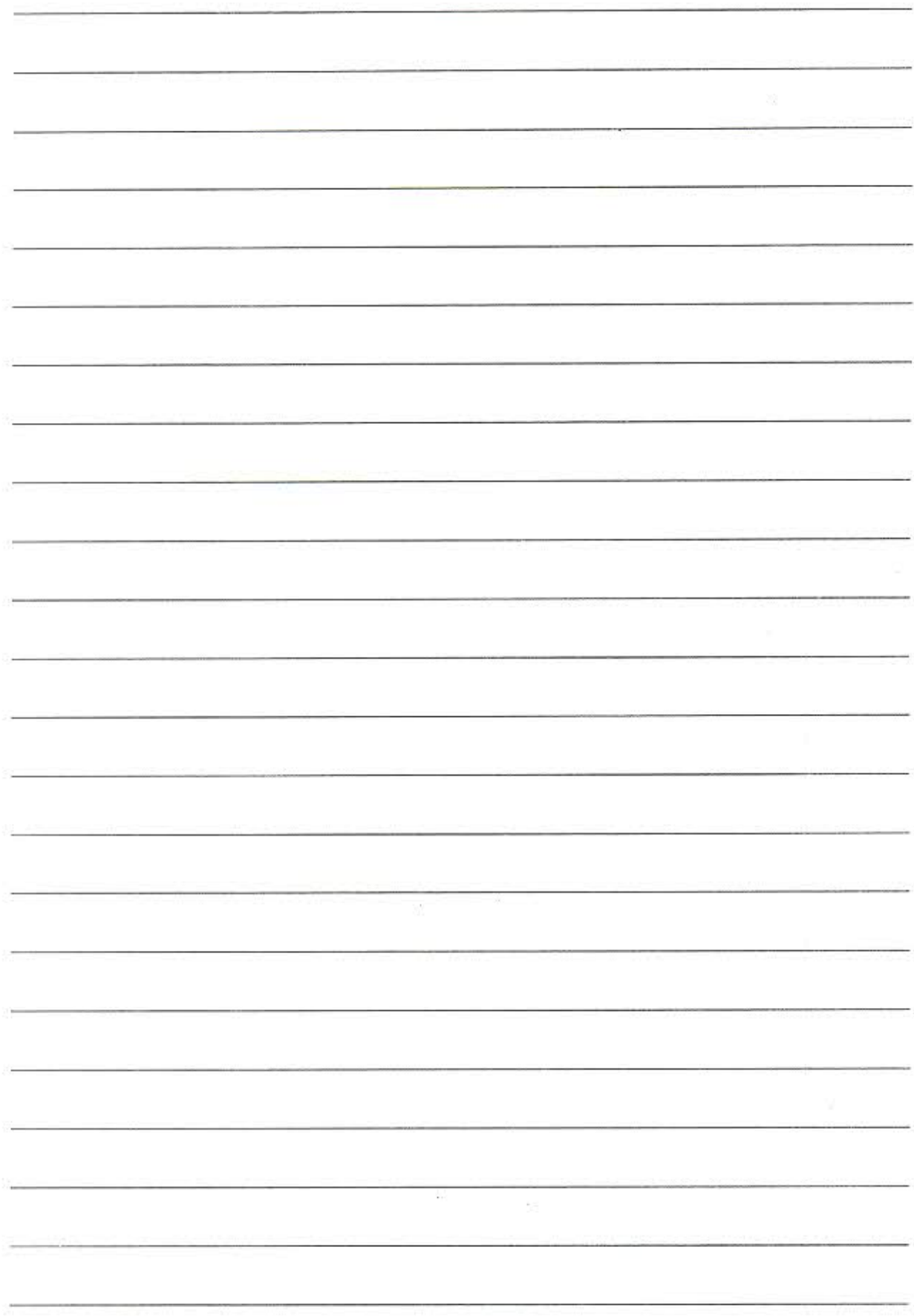
مضمون بیان

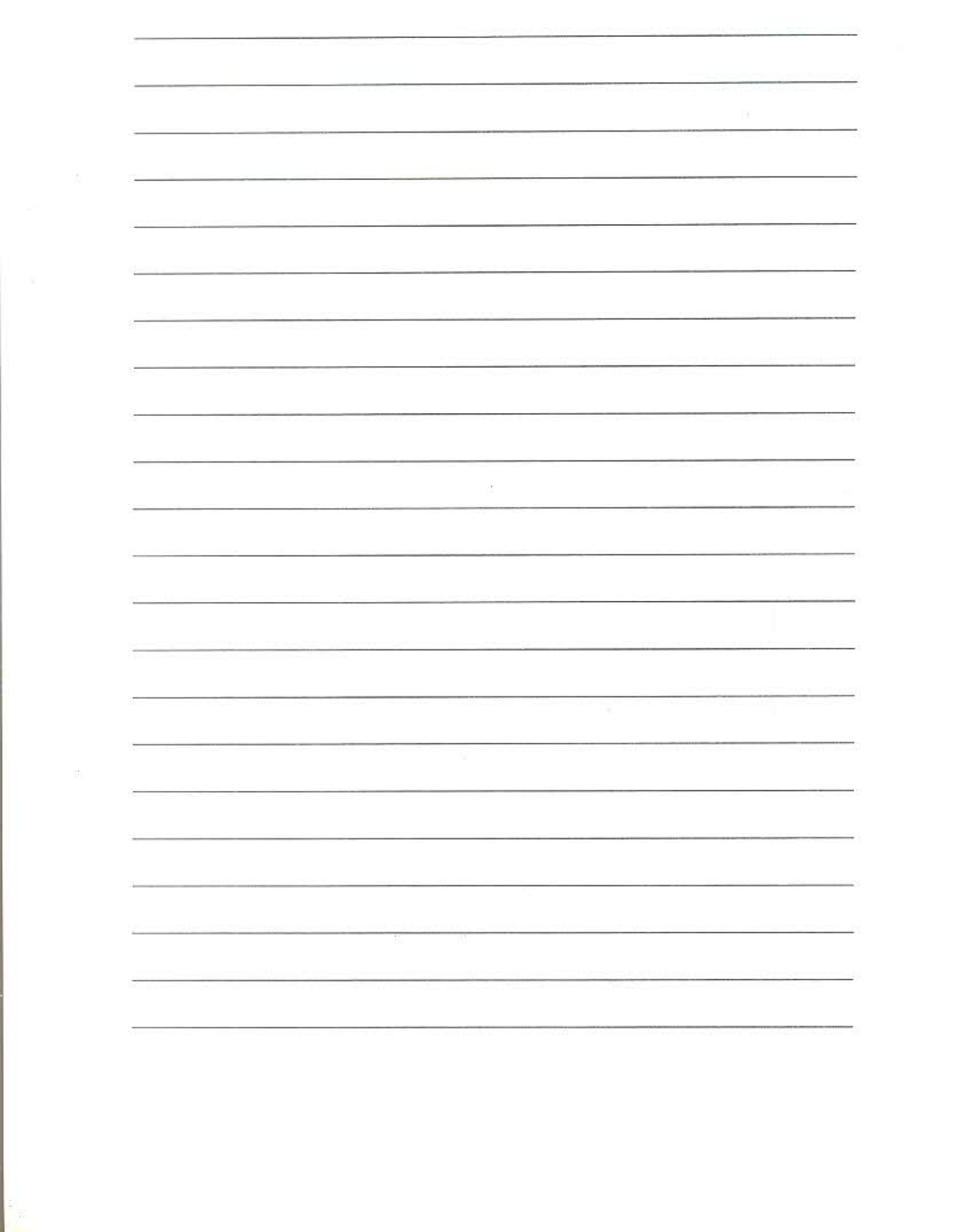
☆ میلے میں ہر طرف شور شرابا چل رہا تھا۔ آسمانی جھولا چکر پہ چکر کھارہا تھا۔ اور جھولے میں بیٹھنے والے خوشی سے چیخ رہے تھے کہ اچانک -----

1

☆ سیلابی ریلے میں گاؤں کے گاؤں بہہ گئے۔ امداد حسین ان مشکل لمحوں میں صرف اپنی ذات کے لئے بے بس بیٹھنے والا نہ تھا۔ اس نے اپنے ہاتھوں سے بنی کشتی پکڑ لی اور لوگوں کی مدد۔۔۔۔۔







(۳) نظم : ایسٹریکٹ آرٹ

مرکزی خیال:

[illegible]

(۴) غزلیات احمد فراز : غزل نمبر ۱

شعر نمبر ۱) مرکزی خیال:

اہم نکات

شعری محاسن

شعر نمبر ۲) مرکزی خیال:

اہم نکات

شعری محاسن

شعر نمبر ۳) مرکزی خیال:

اہم نکات

شعری محاسن

شعر نمبر ۴) مرکزی خیال:

اہم نکات

شعری محاسن

شعر نمبر ۵) مرکزی خیال:

اہم نکات

شعری محاسن

شعر نمبر ۶) مرکزی خیال:

اہم نکات

شعری محاسن

غزل نمبر ۲

شعر نمبر ۱) مرکزی خیال:

اہم نکات

شعری محاسن

شعر نمبر ۲) مرکزی خیال:

اہم نکات

شعری محاسن

شعر نمبر ۳) مرکزی خیال:

اہم نکات

شعری محاسن

شعر نمبر ۴) مرکزی خیال:

اہم نکات

شعری محاسن

شعر نمبر ۵) مرکزی خیال:

اہم نکات

شعری محاسن

Project Grade 9

You have been asked by an international tourism agency to promote tourism in SAARC countries: Pakistan, India, Bhutan, Nepal, Bangladesh, Maldives, Sri Lanka and Afghanistan.

Pick three (3) countries of your choice and make an informative booklet on each. Following points should be included in the booklet.:

- History
- Physical features
- Weather conditions
- Customs and traditions
- Tourist attractions
- Food
- Language/s

Instructions:

- Resources: You have to use a variety of sources to get information for example movies, documentaries, books, magazines, internet articles and photographs.
- All information must be presented in your own words. Cutting and pasting from the internet or copying from books will not be accepted. Mention a list of sources used at the end of your booklet.
- Include: pictures, drawings, maps and sufficient information to explain each heading.
- Word Count: Minimum 250 words for each country

Pakistan Studies

Geography

Colour and name the SAARC countries on the given map.

