

Class- IX (Holiday Homework)
4th Week

Day – 1

Subject- English

1. Collect information about the writer, **John Galsworthy** and write a paragraph about the writer. (Include origin, date of birth and death, education, awards or achievements, major works etc.)

Subject- Hindi

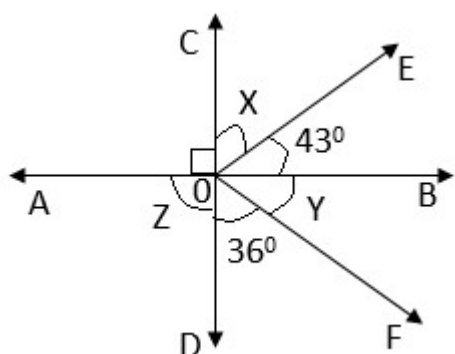
१. निपात शब्द: पाठ में से कोई 5 ऐसे वाक्य छाँटकर लिखिए जिनमें 'ही' या 'भी' जैसे निपात शब्दों का प्रयोग हुआ हो।
२. कठिन शब्द: पाठ में आए इन शब्दों के अर्थ लिखकर वाक्य प्रयोग कीजिए: निरापद, सहिष्णुता, विषाद, पराकाष्ठा, कांजीहौस।

Subject – Odia

୧. ଓଡ଼ିଆ ଭାଷାରେ ବ୍ୟବହୃତ ବର୍ଣ୍ଣ ସଂଖ୍ୟା କେତେ ଓ କ'ଣ କ'ଣ ? ତା'ର ଏକ ତାଲିକା ପ୍ରସ୍ତୁତ କର।
୨. ବର୍ଣ୍ଣର ବିଭାଗୀକରଣ ଖାତାରେ ଲେଖ।

Subject- Maths

1. Define an angle and name its parts.
2. Explain the difference between adjacent angles and vertically opposite angles.
3. If one angle is 45° , find its complement and supplement.
4. Two angles form a linear pair. One is 110° . Find the other and explain why.
5. If $AB \perp CD$, find the missing angles x, y & z.



Subject- Science

Chemistry

“Construct a neat diagram of the Modern Periodic Table and write the properties of elements along the groups and periods.”

Day – 2

Subject- English

1. Write five words and use them in the sentences as a noun and a verb in your own.

Example:

Organisation (Noun): Our organisation is working for the well-being of the people. Organise(Verb): Our school had organised a “Blood Donation Camp”.

Subject- Hindi

किसी एक विषय पर पत्र लिखिए।

अपने क्षेत्र में जलभराव की समस्या की ओर ध्यान आकृष्ट करते हुए स्वास्थ्य अधिकारी को एक पत्र लिखिए।

अथवा

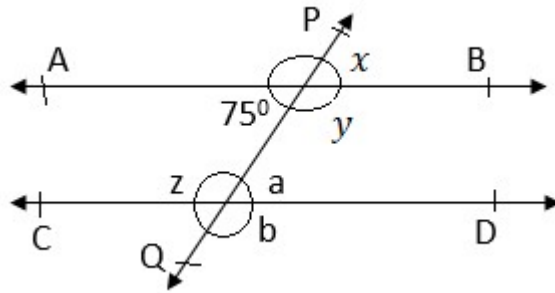
अपने मित्र के पिता की सीमा पर शहीद हो जाने से समाचार प्राप्त होने पर अपनी भावनाएँ व्यक्त करते हुए मित्र को संवेदना पत्र लिखिए।

Subject – Odia

ସ୍ଵର ସନ୍ଧି, ବ୍ୟଞ୍ଜନ ସନ୍ଧି ଓ ବିସର୍ଗ ସନ୍ଧିର ପରିଭାଷା ଲେଖି ତା’ ର ପାଞ୍ଚଗୋଟି ଲେଖାଏଁ ଉଦାହରଣ ଦିଅ।

Subject- Maths

1. What are parallel lines?
2. Define transversal with examples.
3. What are co-interior angles? Explain why co-interior angles are supplementary?
4. If alternate interior angles are not equal. What can you say about the lines?
5. If $AB \parallel CD$ and PQ is the transversal, then find the missing angles a, b, x, y and z.



Subject- Science

Phy-

1. A bus decrease its speed from 80 km /hr to 60 Km/hr in 5 seconds. Find the acceleration of the bus.
2. A car moves 72 km /hr for 20 min, 40 km /hr for 15 minutes and 60 km/hr for 20 minutes. Find the average speed of the car.
3. A racing car has a uniform acceleration of 4m/sec^2 . What distance will it cover in 10 sec after the start?
4. An artificial Satellite is moving in a Circular Orbit of radius 42250Km, Calculated speed it takes 24hr to revolve around the earth.

Day – 3

Subject- English

1. Write an application to the BDO of your block to sink a tubewell in your locality.
2. Translate the following sentences into English.
 - i) ଚାରି ଘଣ୍ଟା ହେଲାଣି ବର୍ଷା ହେଉଛି ।
 - ii) ପ୍ରତି ଶନିବାର ଆମର ସାପ୍ତାହିକ ପରୀକ୍ଷା ହୁଏ ।
 - iii) ଗଡକାଲି ମୁଁ ଗୋଟିଏ ସୁନ୍ଦର ଦୃଶ୍ୟ ଦେଖିଲି ।
 - iv) ପିଲାମାନେ ବର୍ତ୍ତମାନ ଚିତ୍ର ଆଙ୍କୁଛନ୍ତି ।
 - v) ଗାନ୍ଧୀ ଜୟନ୍ତୀ ପ୍ରତି ବର୍ଷ ଅକ୍ଟୋବର ମାସ ଦୁଇ ତାରିଖ ମନା ଯାଏ ।

Subject- Hindi

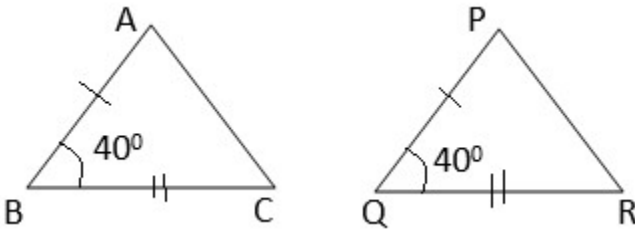
'दो बैलों की कथा' पाठ का सारांश लगभग 100 शब्दों में लिखिए।

Subject – Odia

ତୁମ ଅଞ୍ଚଳର ଆଖପାଖରେ ଥିବା କେତେକ ଔଷଧୀୟ ବୃକ୍ଷର ନାମ ଲେଖ । ତାହା ମଣିଷର କେଉଁ କେଉଁ କାର୍ଯ୍ୟରେ ବ୍ୟବହାର ହେଉଛି ଏକ ତାଲିକା ପ୍ରସ୍ତୁତ କର ।

Subject- Maths

1. Define triangle and list its six components (three sides and three angles)
2. Explain the difference between interior and exterior angles of a triangle.
3. In $\triangle ABC$, $\angle A = 50^\circ$ and $\angle B = 75^\circ$, find $\angle C$.
4. The angles of a triangle in the ratio 2 : 3 : 7. Find them
5. Show that $\triangle ABC \cong \triangle PQR$.



Subject- Science

Bio

1. Why do eukaryotic cells need these organelles?
2. Draw the structure of Nucleus & write its functions.

Day – 4

Subject- English

1. Write five uncountable nouns and make them countable
2. Use these nouns in the sentences.

Subject- Hindi

१. हीरा और मोती के स्वभाव में क्या अंतर था? सोदाहरण स्पष्ट कीजिए। स्वतंत्रता सहज नहीं मिलती, उसके लिए संघर्ष करना पड़ता है—कहानी के आधार पर सिद्ध कीजिए।
२. इस कहानी में आजादी के आंदोलन की झलक कैसे मिलती है? विस्तार से लिखिए।
३. झूरी का अपने बैलों के प्रति और बैलों का झूरी के प्रति प्रेम का वर्णन कीजिए।

Subject – Odia

ପ୍ରବନ୍ଧ ଲେଖ-ତୁମ ଜୀବନର ଲକ୍ଷ୍ୟ

Subject- Maths

1. Define isosceles triangle with figure.
2. In $\triangle ABC$, if $AB=AC$, and $\angle A = 80^\circ$ find $\angle B$ and $\angle C$.
3. Prove that each angle of an equilateral triangle is 60° .
4. In $\triangle ABC$, D is the midpoint of BC. If $AD \perp BC$, prove that $\triangle ABD \cong \triangle ACD$.
5. If altitude AD of $\triangle ABC$ is also a median, prove that $\triangle ABC$ is isosceles.

Subject- Social Science

Prepare 20 MCQs on democracy

Day – 5

Subject- English

1. Make adjective from these nouns:

Beauty, doubt, help, soul, hand

2. Make a sentence using each of these adjectives formed by you.

Subject- Hindi

आप गर्मी छुट्टी में अपने मित्र साथ किसी पर्यटन स्थल पर घुमने गए अपने उस अनुभव का डायरी लेखन कीजिए

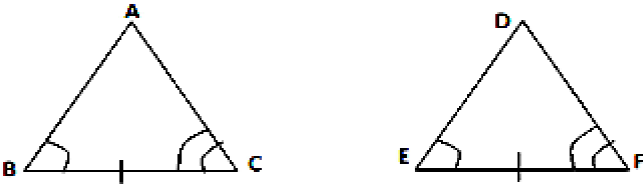
Subject – Odia

ସନ୍ଧି ବିଚ୍ଛେଦ କର।

ଦେବର୍ଷି, ସଦାଚାର, ସୂଚ୍ୟଗ୍ର, ସ୍ଵାଗତ, ଗାୟକ ଭଞ୍ଜଳ, ଜଗନ୍ନାଥ, ଶିଷ୍ଟ, ଧନୁଷ୍ଟଳାର, ମନୋବାହୁ, ସ୍ଵର୍ଗତ, ନିର୍ଦ୍ଦେଶ ।

Subject- Maths

1. State SAS congruence rule with figure.
2. Why does SSA not guarantee congruence?
3. Explain CPCT with an examples.
4. In two triangles, $\triangle ABC$ and $\triangle DEF$, $\angle B = \angle E = 65^\circ$, and $\angle C = \angle F = 75^\circ$ and $BC=EF$.
Prove that $\triangle ABC \cong \triangle DEF$



5. Create a real life example showing congruent triangle.

Subject- Social Science

Write 5 Slogans on democracy

Day – 6

Subject- English

1. Write a paragraph on “Artificial Intelligence”.
2. Prepare a chart on “The Present Perfect” and “ The Present Perfect Progressive” tenses using the verb ‘write’.

Subject – Hindi

नीचे दिए गए समस्त पदों का विग्रह करके समास का नाम भी लिखिए –

- | | | | | |
|--------------|----------------|----------------|----------------|---------------|
| (i) अंशुमाली | (ii) धनहीन | (iii) दशानन | (iv) शताब्दी | (v) मृगनयनी |
| (vi) आजन्म | (vii) कलम-दवात | (viii) प्रतिजन | (ix) रथ यात्रा | (x) चाँद-सूरज |
| (xi) भवसागर | (xii) दिन-रात | (xiii) भवसागर | (xiv) रसोईघर | |
| (xv) आजीवन | | | | |

Subject - Odia

ନିମ୍ନଲିଖିତ ଯେକୌଣସି ଗୋଟିଏ ବିଷୟକୁ କେନ୍ଦ୍ରକରି ଅନୁଲେଖ୍ୟ ପ୍ରସ୍ତୁତ କର।
(ଗାଁ ହାଟ,ଖେଳ ପଡ଼ିଆ, ରାଜରାସ୍ତା, ଗାଁ ଯାତ୍ରା,ପରିବାର, ସାଙ୍ଗସାଥୀ)

Subject – Maths

1. What is the distance formula between two points A(x,y) & B (x₂, y₂) ?
2. Why is distance always non-negative?
3. Find the distance between two points →
 - a. A (2, 3) and B (6, 7)
 - b. M (-1, 4) and N (3, -2)
4. Compare distance between A (1, 2) ; B (4, 6) and C (1, 6). Which is longest AB or BC?
5. A student says distance between (2, 3) and (5, 7) is 5 units. Verify.

Subject- Social Science

Make a project on different farm & nonfarm activities in your locality

Subject – I.T

1. Task: Draft a formal email to local municipal authorities (or a school principal) proposing an IT-enabled solution for a local problem (e.g., setting up a digital complaint portal for broken streetlights).
2. Skill: Formal electronic communication (subject lines, tone, structure).
3. Outcome: A printed copy of the drafted email.

Summer Special Activity

Dear students, visit your nearby daily market with your parents and buy some groceries or other household items. Prepare a bill based on the items you have purchased.