



Winter Holidays' Homework

CLASS – IX, 2023-24

English	<p>Activity AIL(Art Integrated Learning) : <u>Aestheticism of Haryana and Manipur</u></p> <ul style="list-style-type: none">➤ Use a chart paper and draw /paste pics of Authors/poets and the literature of both the regions. Make it colourful and creative. <p>NOTE: INSERT ALL THE SHEETS IN A FOLDER with a cover page bearing the required details (Submitted By :, Teacher in-charge :.....etc.)</p> <hr/> <ul style="list-style-type: none">➤ Revise the syllabus for Final Assessment.➤ Do the assignment and paste in the notebook. <p>https://www.atpeducation.com/view-grammar-Narration+%28Direct+and+Indirect+Speech%29-topic-Type+4+%28dialogue%29-1</p>
Hindi	<p>कल्लू कुम्हार की उनाकोटी</p> <ol style="list-style-type: none">1. मणिपुर की 'मीतई और कूकी' समाज के बीच चल रहे मूल विषय पर आलोचनात्मक टिप्पणी करते हुए, 3 से 4 मिनट का वीडियो बनाइए।2. PT-2 के पाठ्यक्रम का अभ्यास व पुनरावृत्ति करें।3. अभ्यास पत्र हल करें।
Mathematics	<p>Q.1) Conduct a survey of your friends to find which kind of Game (indoor/outdoor) they like the most. Represent the information in the form of (i) Histograms (ii) Frequency Polygons</p> <p>Q.2) Write and learn all formulas of chapter – Number system and Polynomials.</p> <p>Q.3) Project work: (Use A4 pages) Make a project on history of Number π (pie).</p>
Science	<ul style="list-style-type: none">★ Make a documentary showing the agricultural practices done in Manipur and Haryana.★ Revise full syllabus.
Social Science	<p><u>Documentary Making :</u></p> <ul style="list-style-type: none">➤ Prepare a documentary video on Manipur and Haryana using video editing software and apps such as Filmora, Kinemaster , VN Editor etc.➤ Give your voice in background describing the facts regarding these states and don't forget to add necessary texts.➤ You are free to use appropriate background music.

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| | ➤ Upload video on YouTube and share the link with your Class Incharge and Subject Teacher. |
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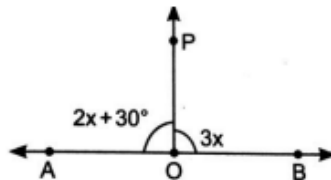
Worksheet – Mathematics

1. The sides of a triangle are 8cm; 15cm and 17cm. find its perimeter and its area. Also find the length of the altitude drawn on the side with length 17cm.
2. The perimeter of the triangle is 44cm. if its sides are in the ratio 9:7:6 find its area.
3. The base of a right angled triangle is 5cm and hypotenuse is 13cm. Find its area.
5. Find the area of a trapezium whose parallel sides' measure 60cm and 77cm and non-parallel sides are 25cm and 26cm.
6. Find four solutions of the linear equation $5x - 4y = -8$
7. Find two solutions of the linear equation $2(x + 3) - 3(y + 1) = 0$
8. The auto rickshaw fare in a city is charged Rs 10 for the first km and Rs 4 per km for Subsequent distance covered. Write the linear equation to express the above statement. Draw the graph of the linear equation.

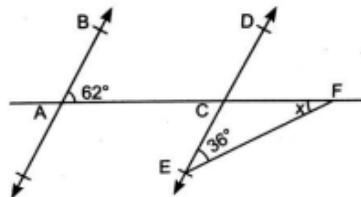
Lines and Angles

VERY SHORT ANSWER TYPE QUESTIONS

- Q1. If the complement of an angle is equal to the supplement of four times the angle, then find the measure of the angle.
- Q2. In a $\triangle ABC$, $\angle A + \angle B = 110^\circ$, $\angle C + \angle A = 135^\circ$. Find $\angle A$.
- Q3. In the given figure, what value of x will make AOB a line?



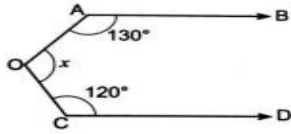
- Q4. In the given figure, AB||ED, find x .



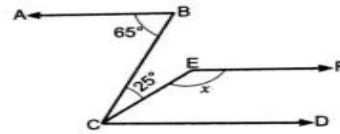
SHORT ANSWER TYPE QUESTIONS

Q5. Determine the value of x in the given figure if $AB \parallel CD$ and $BC \parallel DE$.

i.



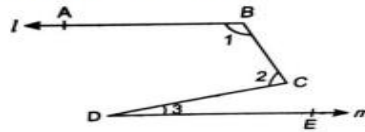
ii.



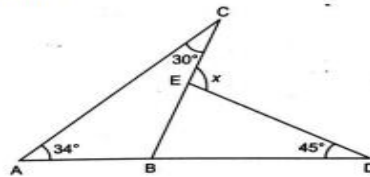
Q6. In a triangle if $4\angle A = 3\angle B = 12\angle C$, find all the angles.

Q7. The angles of a triangle are in the ratio 3:7:8. Find the angles of the triangle.

Q8. In the given figure, $l \parallel m$. Show that $\angle 1 + \angle 2 - \angle 3 = 180^\circ$.

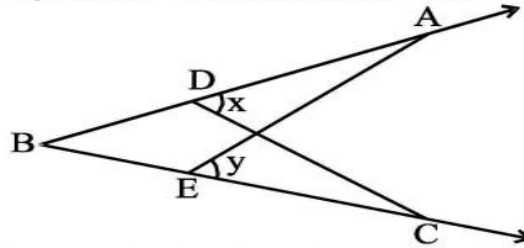


Q9. In the given figure find the value of x .

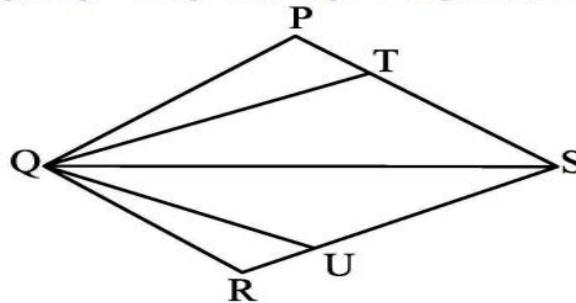


Triangles

1. In the figure if $\angle x = \angle y$ and $AB = CB$. Prove that $AE = CD$.



2. In the figure PQRS is a quadrilateral and T and U are respectively points on PS and RS such that $PQ = RQ$, $\angle PQT = \angle RQU$ and $\angle TQS = \angle UQS$. Prove that $QT = QU$.



3. ABC is a triangle in which $\angle B = 2\angle C$. D is a point on BC such that AD bisects $\angle BAC$ and $AB = CD$. Prove that $\angle BAC = 72^\circ$.

4. In figure if AD is the bisector of $\angle A$, show that: (i) $AB > BD$ (ii) $AC > CD$.

