



THE RIVERS SECONDARY COLLEGE

RICHMOND RIVER HIGH CAMPUS

The heart of secondary education for Lismore

Year 8 Term Two PRACTICE Test 2025

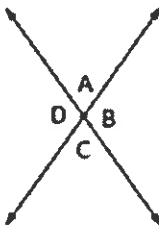
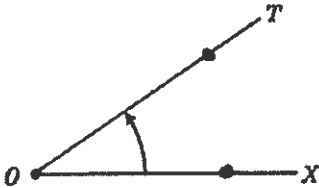
45 Minute Exam

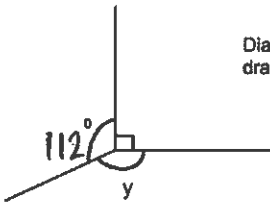

Name:

Teacher:

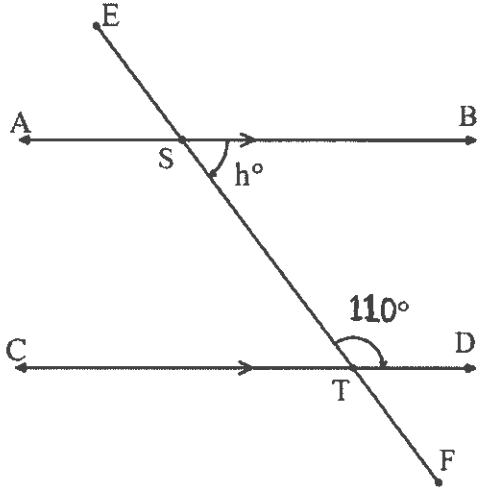
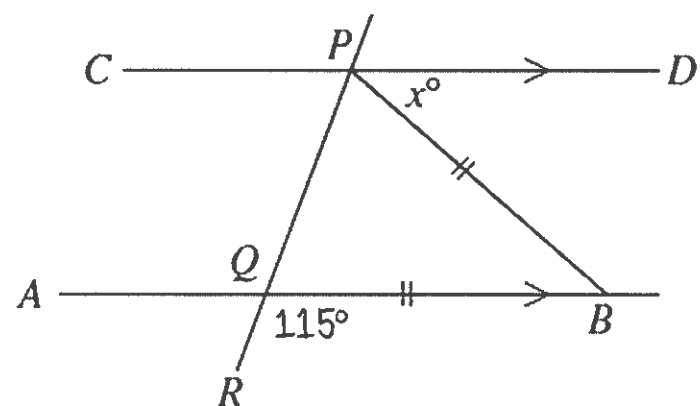
Class:

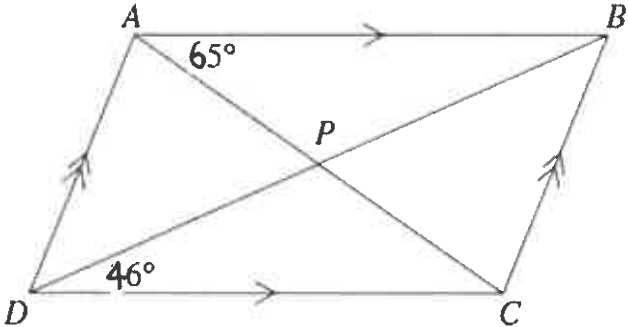
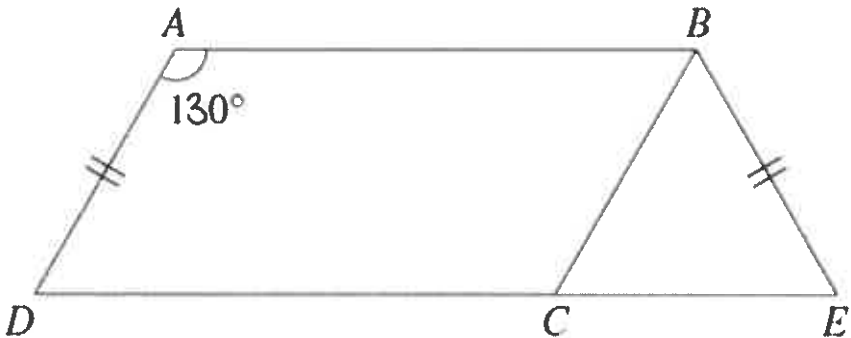
Multiple Choice

1	Which of the following is a pair of complementary angles? a) 35° and 145° b) 50° and 40° c) 90° and 90° d) 120° and 40°	1
2	What is the sum of angles around a point? a) 190° b) 280° c) 180° d) 360°	1
3	Which angle pair is always equal when two parallel lines are cut by a transversal? a) Co-interior b) Complementary c) Supplementary d) Alternate	1
4	If the measure of angle B is 67 degrees then the measure of angle D is _____ degrees. a) 45° b) 35° c) 67° d) 90° 	1
5	What is O called? a) point b) endpoint c) arm d) midpoint 	1

6	<p>What is the size of angle y?</p> <p>a) 90° b) 80° c) 125° d) 158°</p>  <p>Diagram not drawn accurately</p>	1												
7	<p>What is the size of angle b?</p> <p>a) 79° b) 131° c) 64° d) 42°</p>  <p>Diagram not drawn accurately</p>	1												
Short Answer														
8	<p>Complete the table below by drawing a diagram and writing the naming convention for each.</p> <table border="1"> <thead> <tr> <th>Word</th><th>Diagram (Draw here)</th><th>Naming Convention</th></tr> </thead> <tbody> <tr> <td>Line</td><td></td><td></td></tr> <tr> <td>Ray</td><td></td><td></td></tr> <tr> <td>Interval</td><td></td><td></td></tr> </tbody> </table>	Word	Diagram (Draw here)	Naming Convention	Line			Ray			Interval			3
Word	Diagram (Draw here)	Naming Convention												
Line														
Ray														
Interval														
9	<p>Two angles form a straight line. One angle measures 34°. Find the other angle and justify your answer.</p>	2												

10	<p>A triangle has angles $4x$, $2x$, and 60°. Find the value of x and state the angle properties used to find x.</p> <div data-bbox="1082 230 1401 459" data-label="Diagram"> <p>A triangle with interior angles labeled $4x$, $2x$, and 60°.</p> </div>	2
11	<p>In a quadrilateral, two angles measure 70° and 85°. The remaining two are equal. Find the value of x and state the angle properties used to find x.</p> <div data-bbox="1002 875 1337 1153" data-label="Diagram"> <p>A quadrilateral with interior angles labeled x, x, 70°, and 85°.</p> </div>	2
12	<p>Find the value of the angle</p> <p>a) $\angle FPG$</p> <p>b) $\angle BCP$</p> <div data-bbox="826 1608 1369 1971" data-label="Diagram"> <p>A diagram showing two horizontal parallel lines intersected by two transversals. The top line has points E, F, G, H and the bottom line has points A, B, C, D. The intersection of the transversals is at point P. Angle FPG is the top angle at P, and angle BCP is the bottom-right angle at P. Angle BCP is labeled 55°.</p> </div>	2

13	<p>Find the value of h and $\angle AST$.</p> 	2
14	<p>Find the value of x justifying the angle properties used.</p> 	3

15	<p>In the diagram, $ABCD$ is a parallelogram. Find the size of $\angle DPC$ and justify by stating the angle properties used.</p>  <p>The diagram shows a parallelogram $ABCD$ with diagonals AC and BD intersecting at point P. The angle $\angle BAC$ is labeled as 65° and the angle $\angle BDC$ is labeled as 46°. Arrows on the sides AB, DC, AD, and BC indicate that opposite sides are parallel.</p>	2
16	<p>The diagram shows a parallelogram $ABCD$. Find the size of $\angle ABC$ and $\angle BEC$. Justify your answers by stating the angle properties used.</p>  <p>The diagram shows a parallelogram $ABCD$ with vertices A, B, C, and D. Side AD is extended to point E such that $BC = DE$, as indicated by the single tick marks on BC and DE. The angle $\angle DAB$ is labeled as 130°. Arrows on the sides AB and DC indicate that they are parallel.</p>	3

Look at the following diagram. Your task is to find the size of **four** other angles (do not use the given values).

For **each** angle:

- State the angle size in degrees.
- Justify your answer with correct mathematical terminology (e.g. "alternate angles in parallel lines" "corresponding angles").

