# THE RIVERS
## SECONDARY COLLEGE
### RICHMOND RIVER HIGH CAMPUS

*The heart of secondary education for Lismore*

**Year 8 Term Two PRACTICE Test 2025**
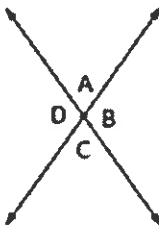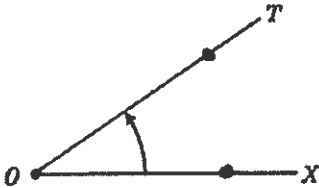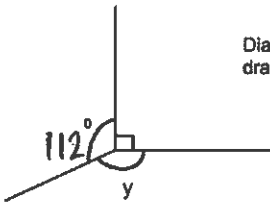
**45 Minute Exam**

| Name: |
| --- |
| Teacher: |
| Class: |

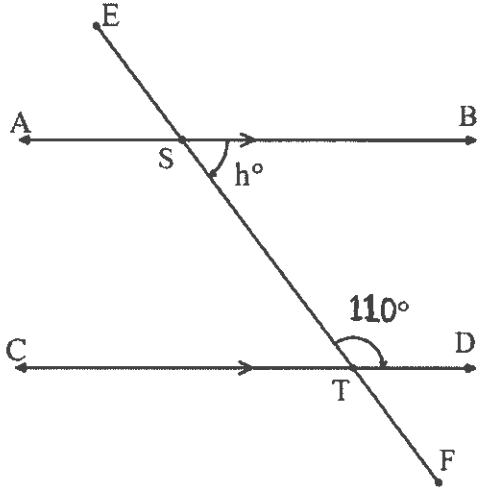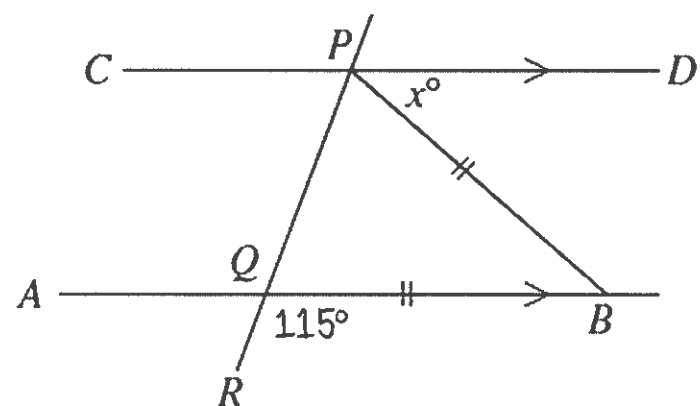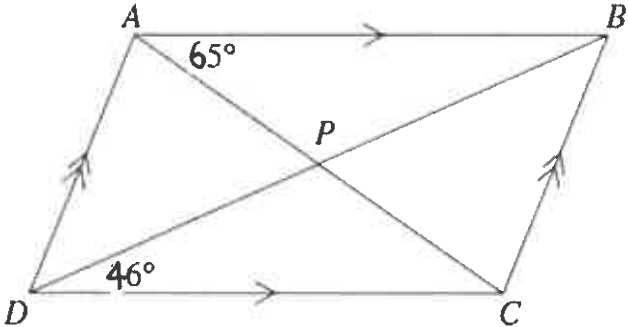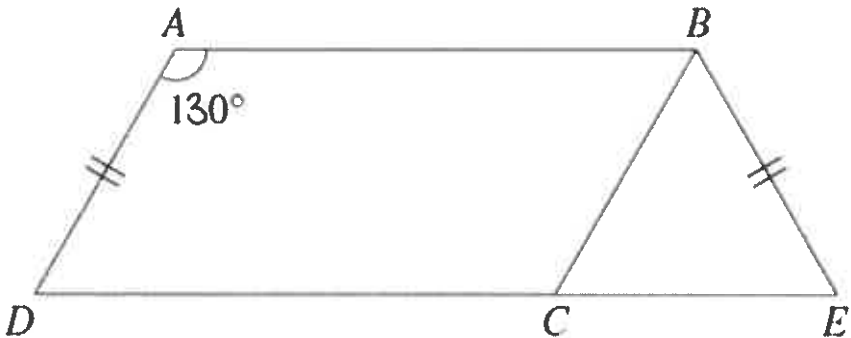| | **Multiple Choice** | |
| --- | --- | --- |
| 1 | Which of the following is a pair of complementary angles?<br><br>a) 35° and 145°<br>b) 50° and 40°<br>c) 90° and 90°<br>d) 120° and 40° | 1 |
| 2 | What is the sum of angles around a point?<br><br>a) 190°<br>b) 280°<br>c) 180°<br>d) 360° | 1 |
| 3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

| 6 | What is the size of angle $y$? | 1 |
|---|---|---|

Diagram not drawn accurately

a) 90°
b) 80°
c) 125°
d) 158°

$112°$

$y$

| 7 | What is the size of angle $b$? | 1 |
|---|---|---|

Diagram not drawn accurately

$116°$

$b$

a) 79°
b) 131°
c) 64°
d) 42°

## Short Answer

| 8 | Complete the table below by drawing a diagram and writing the naming convention for each. | 3 |
|---|---|---|

| Word | Diagram (Draw here) | Naming Convention |
|---|---|---|
| Line | | |
| Ray | | |
| Interval | | |

| 9 | Two angles form a straight line. One angle measures 34°. Find the other angle and justify your answer. | 2 |
|---|---|---|

| 10 | A triangle has angles $4x, 2x$, and $60°$. Find the value of $x$ and state the angle properties used to find $x$. | 2 |
|---|---|---|



| 11 | 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 $x$. | 2 |
|---|---|---|



| 12 | Find the value of the angle<br><br>a) $\angle FPG$<br><br>b) $\angle BCP$ | 2 |
|---|---|---|

| 13 | Find the value of $h$ and $\angle AST$. | 2 |



| 14 | Find the value of $x$ justifying the angle properties used. | 3 |

| 15 | In the diagram, $ABCD$ is a parallelogram. Find the size of $\angle DPC$ and justify by stating the angle properties used. | 2 |
|----|----|----|



| 16 | The diagram shows a parallelogram $ABCD$. Find the size of $\angle ABC$ and $\angle BEC$. Justify your answers by stating the angle properties used. | 3 |
|----|----|----|

| 17 | Look at the following diagram. Your task is to find the size of **four** other angles (do not use the given values). | 4 |
| | 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"). | |