Department of Education and Training

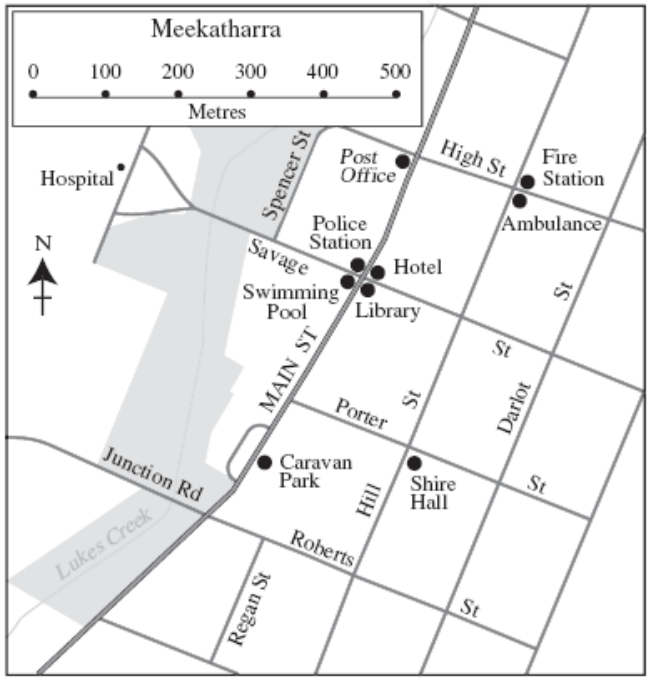
Numeracy Year 9 – Week 7: Space

STUDENT WORKSHEET

Focus of the week

Angle properties related to parallel or perpendicular lines

Question 1



On the map above, Porter St and Savage St are parallel.

The angle between Porter St and Main St is 78º.

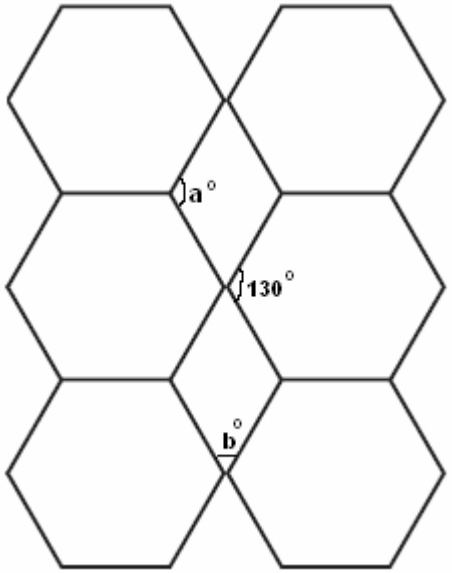
What is the angle between Main St and Savage St:

a) at the Swimming Pool? _____

b) at the Hotel? _____

Question 2

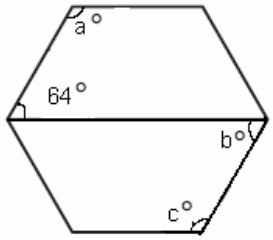
In this diagram, the opposite sides of each shape are parallel.



What is the value of *a* and of *b*?

a = _____ *b* = _____

Question 3



In this diagram, the opposite sides of the hexagon are parallel and the diagonal is parallel to the base of the hexagon.

What are the values of a, b and c?

a = _____; b = _____; c = _____

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Challenge Question

ABCDE is a hexagon with three pairs of parallel sides.
Its sides are not all the same length.

What is the size of angle *B* if the size of angle *A* is 62º and the size of angle *C* is 155º?