25

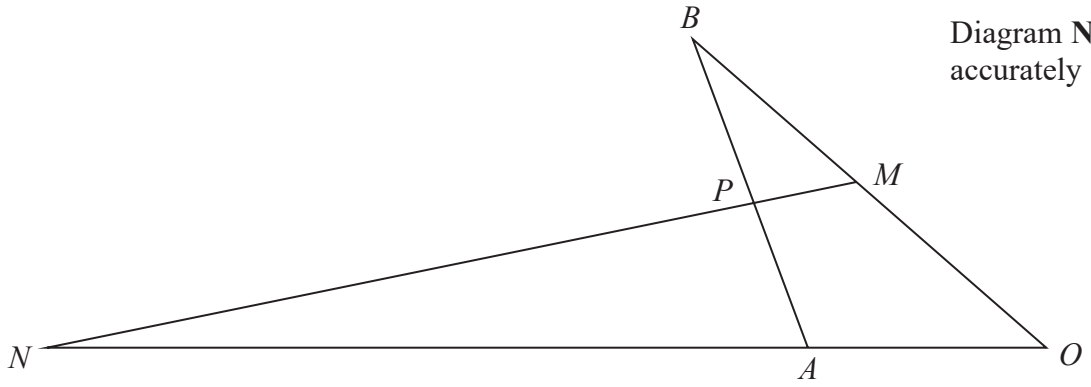


Diagram **NOT** accurately drawn

OAN, *OMB*, *APB* and *MPN* are straight lines.

$OA : AN = 1 : 4$

$OM : MB = 1 : 1$

$\overrightarrow{OA} = 2\mathbf{a}$ $\overrightarrow{OB} = 2\mathbf{b}$

By using a vector method, find the ratio $AP : PB$
Give your answer in its simplest form.

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
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(Total for Question 25 is 5 marks)

Turn over for Question 26