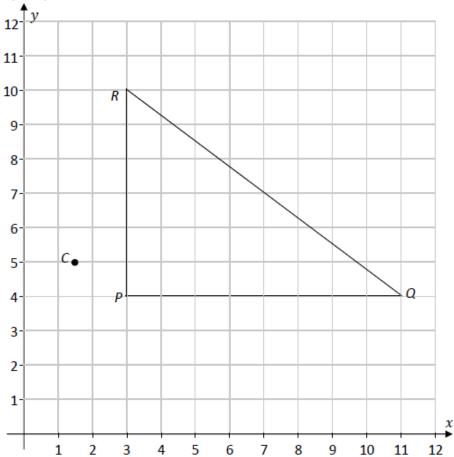
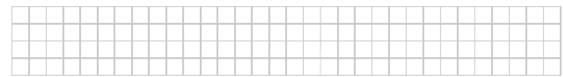
(a) The triangle PQR is shown in the diagram below, where P = (3, 4), Q = (11, 4), and R = (3, 10).

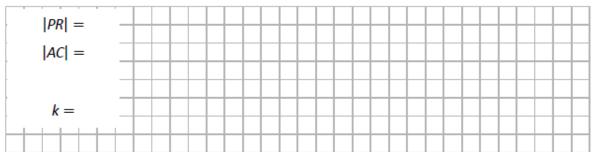


(i) Draw the triangle ABC on the same diagram, where A = (1.5, 2), B = (5.5, 2), and C = (1.5, 5).

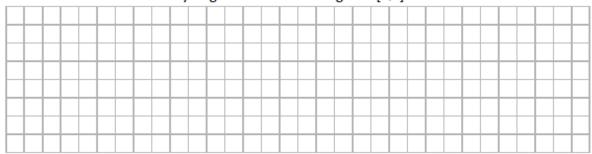
Note: the point *C* is already marked in for you.



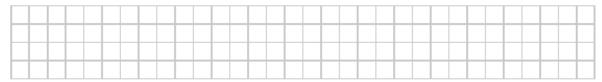
f the triangle ABC by an enlargement of scale factor \emph{k}
the enlargement.
to find k , the scale factor of the enlargement.



(iii) The triangle PQR has a right angle at P.
Use the Theorem of Pythagoras to find the length of [QR].



(iv) Use your answers to part (a)(ii) and part (a)(iii) to find the length of [BC].



(v) The area of the triangle ABC is 6 square units.Using this, or otherwise, find the area of the triangle PQR.

