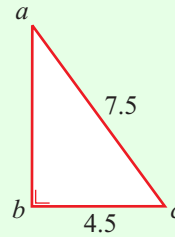(© Tony Kelly & Kieran Mills)

GEOMETRY (Q 4, PAPER 2)

2008

4 (a) In the triangle abc,

$|\angle abc| = 90°, |bc| = 4{\cdot}5$ and $|ac| = 7{\cdot}5$.

Find $|ab|$.

(b) Prove that the opposite sides of a parallelogram have equal lengths.

(c) (i) Construct an equilateral triangle pqr of side 8 cm.

(ii) Construct the image of the triangle pqr under the enlargement of scale factor $0{\cdot}75$ and centre q.

(iii) Given that the area of the triangle pqr is $16\sqrt{3}$ cm^2, find the area of the image triangle in the form $k\sqrt{3}$ cm^2.

ANSWERS
4   (a) 6

(c) (iii) $9\sqrt{3}$