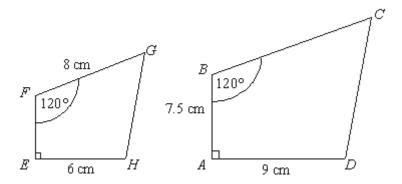
**Q1.** Shapes ABCD and EFGH are mathematically similar.



Diagrams NOT accurately drawn

(a) Calculate the length of BC.

(b) Calculate the length of EF.

......cm (2) (Total 4 marks)

## M1.

	Working	Answer	Mark	Additional Guidance
(a)	$\frac{3}{2} \times 8$	12		9 <u>6</u> <u>8 6</u> M1 for <sup>6</sup> or <sup>9</sup> or <sup>6</sup> or <sup>8</sup> A1 cao
(b)	2 3 × 7.5	5		M1 for $\frac{9}{6}$ or $\frac{6}{9}$ or $\frac{9}{7.5}$ or $\frac{7.5}{9}$ or $\frac{"12"}{8}$ or $\frac{8}{"12"}$ or $\frac{7.5}{7.5}$ or $\frac{"12"}{7.5}$ or $\frac{7.5}{7.5}$ or $\frac{"12"}{9}$
Total for Question: 4 marks				

**E1.** Those candidates who worked with scale factors were usually successful. Errors were more common in part (b) where some candidates multiplied 7.5 by the scale factor rather than divide. A quick look at the diagram ought to have alerted these candidates to the fact that the length of *EF* could not possibly be 11.25 cm. Many candidates, though, did not work with scale factors but assumed that because *AD* was 3 cm longer than *EH* then each side in *ABCD* was 3cm longer than the corresponding side in *EFGH*. This resulted in 11 cm and 4.5 cm being very common incorrect answers in part (a) and part (b) respectively.