

Further proofs for similar triangles

1

- a $\angle ABE$ and $\angle ACD$ form a pair of equal corresponding angles.
- b $\angle BEA = \angle CDA$
- c All three pairs of corresponding angles are equal.
- d Scale factor = 2.5
- e $f = 5$

2

- a No solution provided.
- b $x = 24$
(Corresponding sides in similar triangles are in the same ratio)
- c $y = 9$
(Corresponding sides in similar triangles are in the same ratio)

3

- a No solution provided.
- b No solution provided.

4

- a No solution provided.
- b Scale factor = 3
- c $f = 6$
(Corresponding sides in similar triangles are in the same ratio)

5

- a No solution provided.
- b $f = 7$
(Corresponding sides in similar triangles are in the same ratio)

6

- a No solution provided.
- b $x = 9$ m (Corresponding sides in similar triangles are in the same ratio)

7

- a No solution provided.
- b No solution provided.
- c Yes

8

- a No solution provided.
- b $\frac{1}{2}$

9 No solution provided.

10 No solution provided.

11 No solution provided.