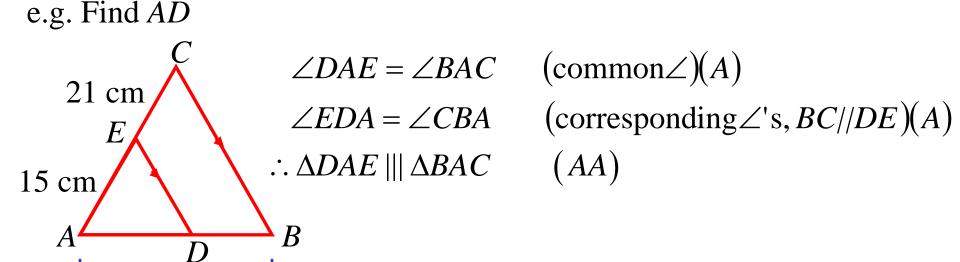
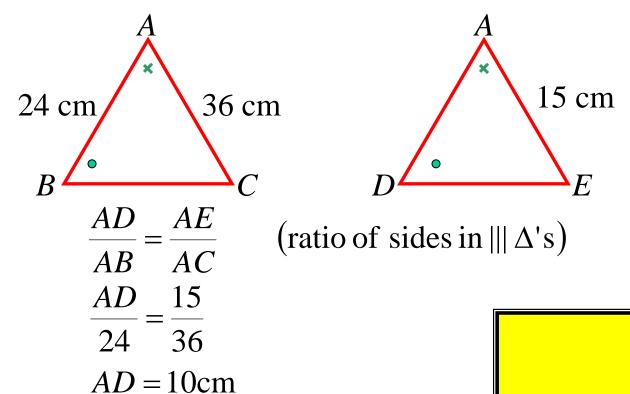
## Similar Triangles

## **TESTS**

- (1) Corresponding sides are in proportion (SSS with ratio a:b)
- (2) Two pairs of corresponding sides are in proportion <u>AND</u> the included angles are equal (SAS with ratio a:b)
- (3) All three angles are the same as the three angles in the other (AA)





## In similar shapes;

If sides are in the ratio a:b area is in the ratio  $a^2:b^2$  volume is in the ratio  $a^3:b^3$ 

Exercise 8H; 2bd, 4ab, 6bc, 8, 12, 16, 18, 20, 21, 24\*