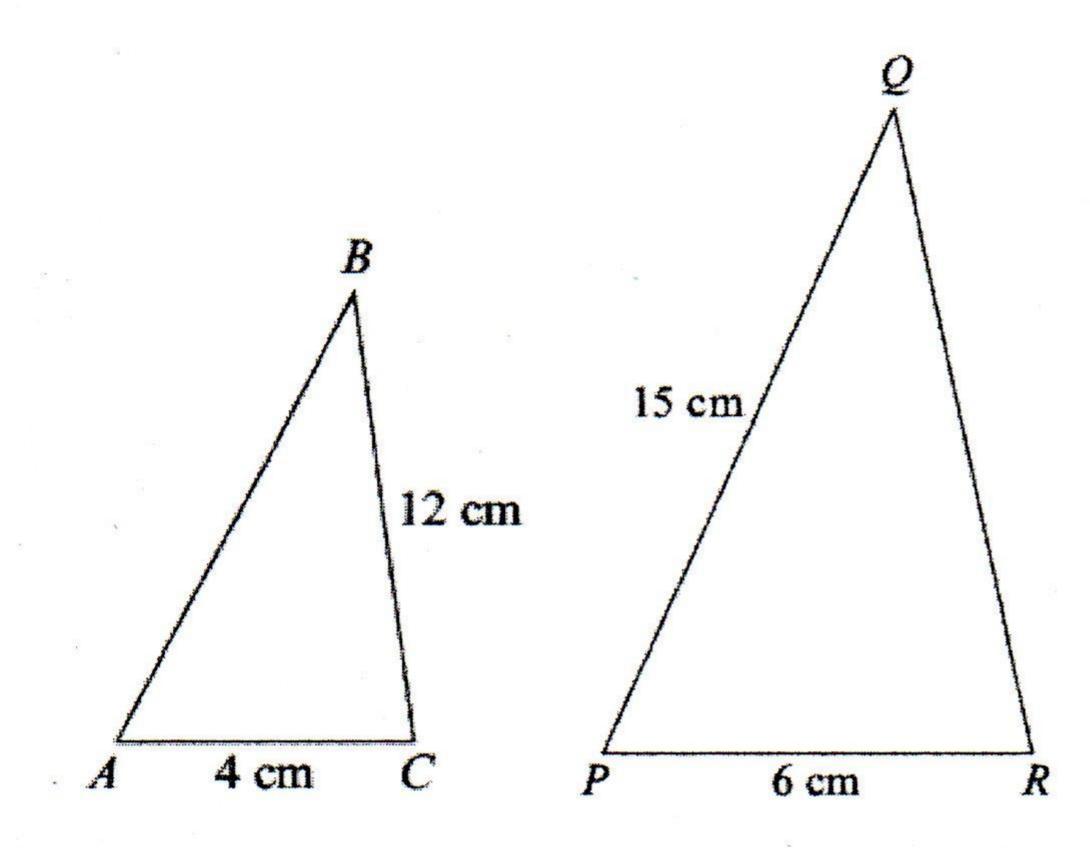
Similar shapes and tessellation

Similar Shapes

Two shapes are similar if their corresponding angles are equal. If two shapes are similar then their ratio of the sides are equal, which is also known as the scale factor of enlargement.

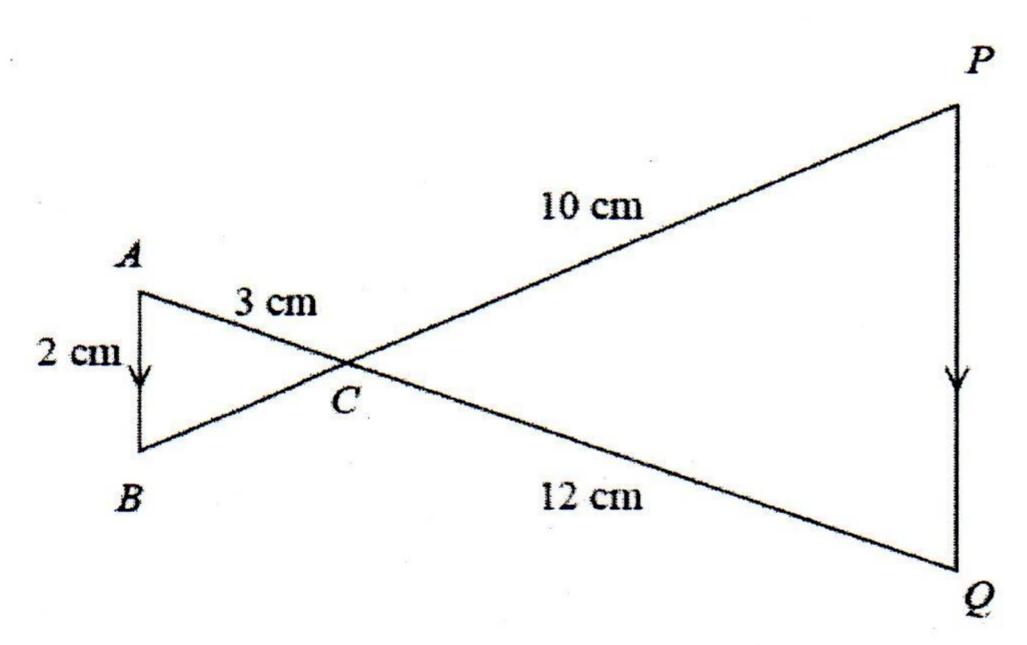
Q1.



Triangles ABC and PQR are mathematically similar. Angle A = angle P., Angle B = angle Q., Angle C = angle R. AC = 4 cm. BC = 12 cm(a) Work out the length of QR.

	QR=		
(b)	Work out	the length	of AB.
	AB=		

Q2.



ACQ and BCP are straight lines.

AB is parallel to PQ.

AB = 2 cm. AC = 3 cm.

CQ = 12 cm.

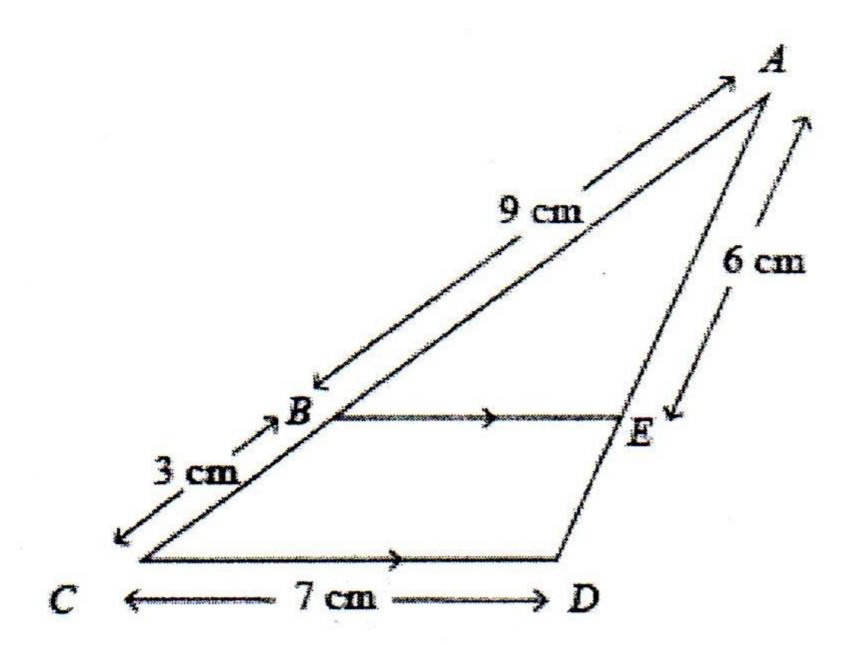
CP = 10 cm.

(a) Work out the length of PQ.

(b) Work out the length of BP.

..... cm

..... cm



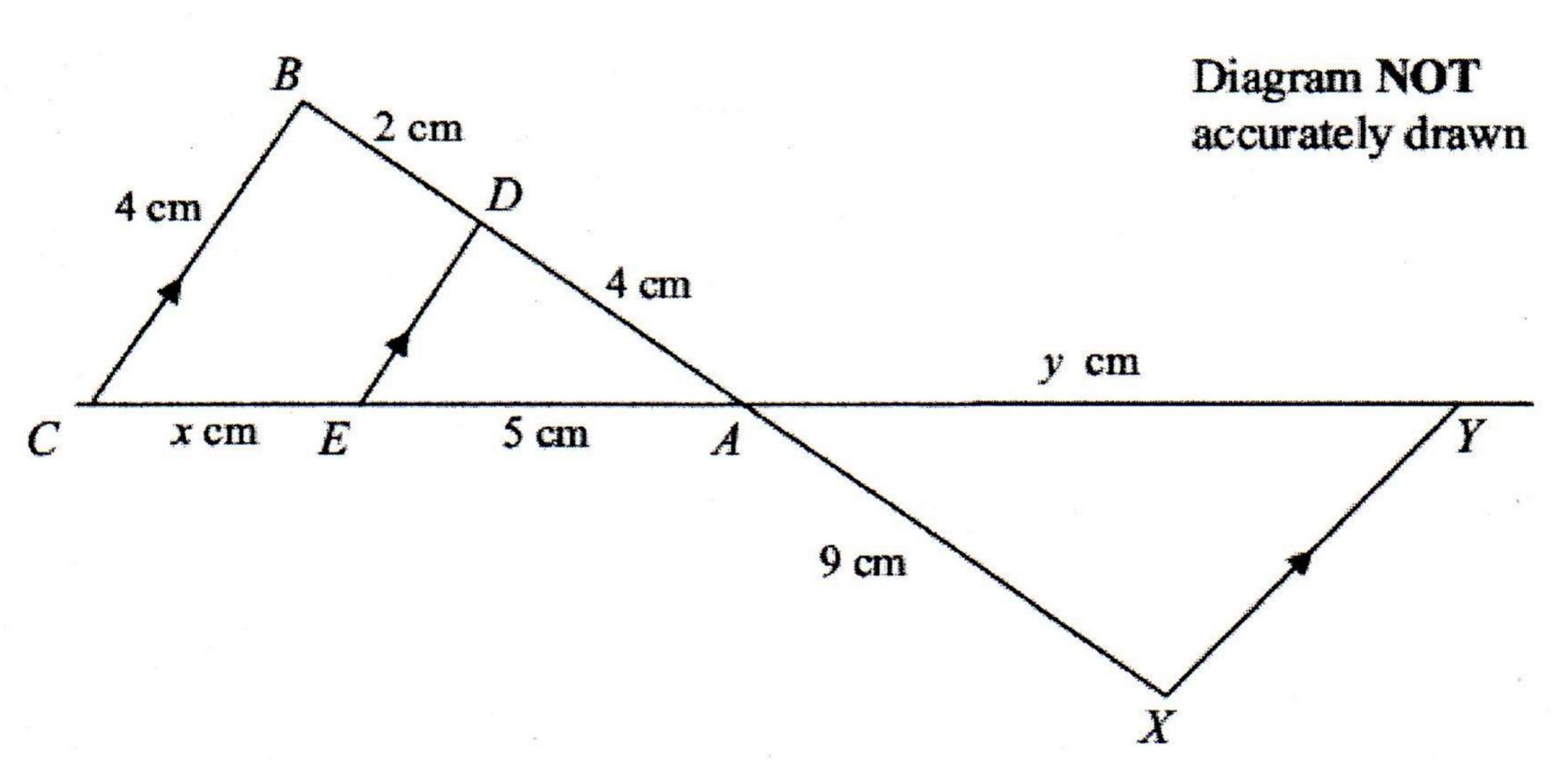
BE is parallel to CD.

AB = 9 cm, BC = 3 cm, CD = 7 cm, AE = 6 cm.

(a) Calculate the length of ED.

(b) Calculate the length of BE.

Q4.



CEAY and BDAX are straight lines.

XY, ED and CB are parallel.

AE = 5 cm., AX = 9 cm.

AD = 4 cm.

BC = 4 cm.

BD = 2 cm.

CE = x cm.

XY = y cm.

Find the value of x and the value of y.