## **Triangle Congruency Constructions**

- Use a compass, protractor and ruler for all constructions
- On the triangle label the following
  - Each vertex
  - Each dimension you used to measure it
  - The Congruence shortcut of the dimensions used
- Which shortcuts don't work?? (they don't prove congruence)
  - Create more than one of the triangle when it will create 2 non-congruent triangles (which triangles will these be?).
- All triangle constructions should fit on the front and back of one piece of paper
- You will be graded on
  - Accuracy of constructions
  - Correctly identifying the congruence shortcut
  - Correctly labeling your triangles

ΔFLY	ΔΥΑΚ	ΔΑΡΕ	ΔHOG
∠F = 38°	∠Y = 70°	∠A = 70°	∠O = 30°
FL = 9 cm	∠A = 30°	∠E = 25°	OG = 7 cm
FY = 11.5 cm	∠K = 80°	AP = 7 cm	GH = 4.6 cm

ΔFΟΧ	ΔPIG	$\Delta$ RAM
∠O = 90°	PI = 8 cm	∠R = 15°
OX = 4.3  cm	IG = 7.2 cm	∠A = 140°
FX = 10 cm	GP = 6.5 cm	RA = 7.3  cm