a) The diagram shows ABCD. Prove that the triang are congruent.	a parallelogra	m $B \\ C \\ A \\ D \\ C \\ C$	b) The diagram shows a kite ABCD. Prove that the triangles ABD and BCD are congruent.			
What condition of congruency can we use?	(Side, side, s are equal to the	SSS ide – If the three sides of one triangle o the three sides of another triangle, two triangles are congruent)	What condition of congruency can we use?	SAS (Side, angle, side – If any two sides and the angle between them of one triangle are equal to two sides and the angle between them of another triangle, the two triangles are congruent)		
What can we say about the two triangles?	S	AB = CD, because the opposite sides of a parallelogram are equal), because the opposite parallelogram are equal		AB = BC, because these are equal sides of the kite	
	S	BC = AD, because the opposite sides of a parallelogram are equal	What can we say about the two triangles?	A	DAB = DCB, because a kite has a line of symmetry (BD)	
	S AC is a shared side of both triangles			S	AD = CD, because these are equal sides of the kite	
What does this mean?	Because the three sides of triangle ABC are equal to the three sides of another triangle, we can say that triangles ABC and ACD are congruent.		What does this mean?			

BACKWARD FADED MATHS

c) Prove that the triangles ABC and D are congruent.	EF 3cm B 83° 8cm A C	D 8cm E 3cm F	d) Prove that the triangles ABC and DEF are congruent.	$A \begin{array}{c} 6 cm \\ 72^{\circ} \\ C \end{array} \\ C \\ B \\ 45^{\circ} \\ 45^{\circ} \\ C \\ $	F 72° E D $6cm$				
What condition of congruency can we use?	SAS (Side, angle, side – If any two si between them of one triangle sides and the angle between triangle, the two triangles a	des and the angle are equal to two them of another re congruent)							
What can we say about the two triangles?									
What does this mean?									
BACKWARD FADED MATHS									