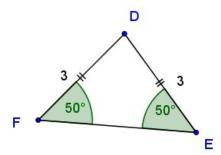


Student Activity Theorem 2

Use in connection with interactive file "Theorem 2" on the Student's CD.



1.	Drag the point D to make the measure of the angle DEF 50°.
	What is the measure of the angle DFE? Are the two angles equal in
	measure?
	Write down the lengths of the sides DE and DF. Are these lengths equal?
2.	Drag the point D to make the length of the side DE = 4. What is the length of the side DF? Are the two sides equal?
	Write down the measures of the angles DEF and DFE.
	DEF =, DFE =
	Are the measures of the two angles equal?
3.	Drag the point D to make the measure of the angle DFE = 70°. What is the measure of the angle DEF? Are the two angles equal in measure? Write down the lengths of the sides DF and DE. Are these lengths equal?
	Write down the lengths of the sides by that be. Are these lengths equal.
4.	Drag the point D to make the length of the side DF = 8. What is the length of the side DE? Are the two sides equal?
	Write down the measures of the angles DFE and DEF.
	DFE =, DEF = Are the measures of the two angles equal?

5. What conclusion can be drawn from the answers in questions 1, 2, 3, and 4 when

(i) the sides are equal:



	Conclusion
	(ii) the angles are equal:
	Conclusion
6.	Click on the Tick Box 1 and Tick Box 2 on the interactive file to reveal the wording of
	this theorem and the converse of this theorem.
	Did you come to these conclusions?