SURDS

Lily writes $\sqrt{48} = \sqrt{16 \times 3} = 4 \times 3 = 12$ Lily is incorrect. Explain what Lily has done wrong. Correct her answer.					
a) Simpl	ify fully:				F
i.	$\sqrt{50}$				
ii.	√ <u>108</u>				
iii.	$\sqrt{\frac{36}{64}}$				
iv.	$\sqrt{\frac{7}{25}}$				
b) Ration form.	nalise the deno	ominator of these sure	ds. Write the answ	vers in their simplest	
i.	$\frac{12}{2\sqrt{3}}$				
ii.	$\frac{12}{5-\sqrt{3}}$				
iii.	$\frac{12+\sqrt{2}}{5-\sqrt{3}}$				



Q	SURDS					$\overline{\mathbf{S}}$			
	I can simplify a surd								
	I can rationalise the denominator of a fraction when it is of the form $a\sqrt{b}$								
	I can rationalise the denominator of a fraction when it is of the form $a\pm\sqrt{b}$								
Improvements I could make:									
Mathematical presentation		Method	Accuracy	Units					