Name:
Class:
_

Time:

Marks:

Comments:

31

26

Q1.		(a)	Simplify fully	√2 (√8 – √2)	
				Answer	
	(b)			$y = \sqrt{5} \qquad Z = \sqrt{2}$	/10
			rk out the value of ite your answer in its sim	$\frac{y}{xz}$ blest form.	
				Answer	(2) (Total 4 marks)
			_	_	
Q2.		(a) Yo	Simplify fully $\sqrt{75}$ ou must show your working		
				Answer	

	(b)	Rationalise the denominator and simplify $\frac{21}{\sqrt{7}}$	
		Answer	(2)
Q3.		Show that $(\sqrt{50} - \sqrt{2})^2$ is an integer.	(Total 4 marks)
u 3.		Show that $\sqrt{300} - \sqrt{2} f$ is an integer.	
			(Total 2 marks)
Q4.	(a)	Write each of these in the form $p\sqrt{3}$, where p is an integer. $\sqrt{6} \times \sqrt{50}$	
	(b)	Answer	(2)
	(b)	√48 + √75	
			(2)

	(c)	<u>18</u> √3	
		Answer	(2) (Total 6 marks)
Q5.		(a) Work out the Highest Common Factor (HCF) of 42 and 98.	
		Answer	(2)
	(b)	Write $\sqrt{99} + \sqrt{44}$ in the form $a\sqrt{b}$ where a and b are integers.	
		Answer	(2) (Total 4 marks)
Q6.		(a) Simplify $(9 + \sqrt{7})(9 + \sqrt{7})$ Give your answer in the form $a + b\sqrt{7}$	
		Answer	(2)

	$\frac{\sqrt{12}+6}{\sqrt{3}} = 2(1+\sqrt{3})$	Prove that	(b)
(4) (Total 6 marks)			