

Question	Answer	Mark	Mark scheme	Additional guidance
13 (a)	No with reason	C1	for No with reason, Acceptable examples No, $4 \div 4 \neq 8 \div 6$ No, $4 \div 4 \neq 8 \div 6$ so they don't have the same constant No because $y = kx$ doesn't work No, it wont pass through (0, 0) Not acceptable examples Yes, No, they don't increase by the same number No, they don't have the same constant	
(b)(i)	49	M1	for stating a correct relationship, eg $w = k \times \sqrt{t}$ or $140 = k \times \sqrt{64}$ oe	Condone the use of ' α ' instead of '=' for both M marks Award of this mark implies the previous mark
(ii)	sketch	M1	for method to find constant of proportionality, eg $140 \div \sqrt{64}$ (= 17.5 oe)	
		A1	cao	
(ii)	sketch	C1	for sketch	Sketch at end of mark scheme

Question 13(b) (ii)

