Assessment Schedule – 2012

Economics: Demonstrate understanding of how consumer, producer and/or government choices affect society, using market equilibrium (90986)

Evidence Statement

Question		Evidence												
ONE	Market for Kiwifruit (per year)													
(a)	Price (\$ per kg)			Market supply (tonnes)		Market demand (tonnes)								
		3.00 4.00			7 000 8 000 9 000				10 (000				
								8 000						
	5.00)		4 5	4 500			
		6.				10	000)	2 000					
(a) & (b)		Price (\$/kg)						The m	arket fo	r kiwifruit	t (per yea	ar)	l l	
		6.00			-									s
		5.00							†				/	
	Ре	4.00							 			-		
		3.00												D
		2.00												
		1.00												
			•	1 000	2 000	3 (000	4 000	5 000	6 000	7 000	8 000 Qe	9 000	10 000
								Qd	←	Sur	olus		→ Qs	
													Quan	tity (tonnes)

(c)

At \$5 there is a surplus of 4500 tonnes, as the quantity supplied is greater than the quantity demanded, ie the quantity supplied by the kiwifruit growers is 9000 tonnes while there are only 4500 tonnes demanded by consumers. The growers will reduce the price to try to get rid of the surplus or unsold stock.

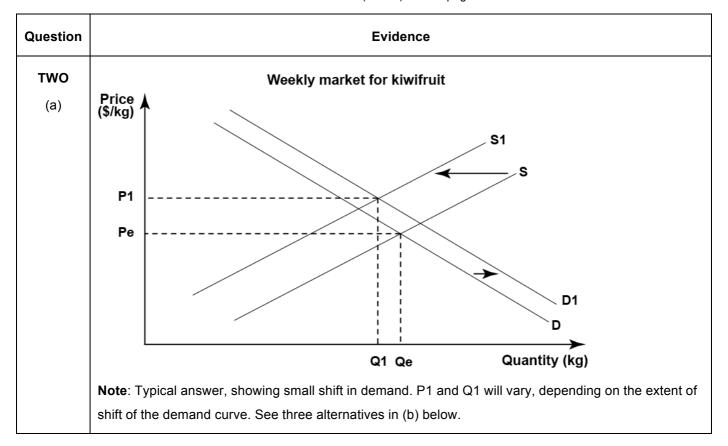
As the price falls, quantity demanded will rise (law of demand) as kiwifruit becomes more affordable. As the price falls, quantity supplied will fall (law of supply) as kiwifruit will now be less profitable.

The price will continue to fall until it reaches \$4, where quantity demanded will equal quantity supplied of 8 000 tonnes.

Judgement Statement - Question One

N1	N2	А3	A4	M5	M6	E7	E8
Shows partial understanding with only TWO of: • completes table with ALL three items correct • correct plotting of most points with equilibrium point identified • identifies a surplus • describes a surplus • identifies a fall in price.	Shows partial understanding with THREE of: • completes table with ALL three items correct • correct plotting of most points with equilibrium point identified • identifies a surplus • describes a surplus • identifies a fall in price.	Shows understanding with FOUR of: completes table with ALL three items correct correct plotting of most points with equilibrium point identified identifies a surplus describes a surplus identifies a fall in price.	Shows breadth of understanding with correct plotting of all points, with equilibrium identified AND TWO of: identifies a surplus describes a surplus identifies a fall in price.	Detailed explanation of how equilibrium is restored. • Uses data to identify a surplus • explains the surplus ie Qs > Qd • explains why price will fall (ie kiwifruit growers will reduce price to get rid of unsold stock). OR uses law of demand OR supply to explain the restoration of equilibrium.	Detailed explanation of how equilibrium is restored. • Uses data to identify a surplus • explains the surplus ie Qs > Qd • explains why price will fall (ie kiwifruit growers will reduce price to get rid of unsold stock) • uses law of demand OR supply to explain the restoration of equilibrium.	Comprehensive explanation of how equilibrium is restored with some reference to data/graph. Only minor errors in use of economic terms. • explains surplus using data correctly • explains why price will fall (ie kiwifruit growers will reduce price to get rid of unsold stock) • applies law of supply (ie P↓Qs↓) • applies law of demand (ie P↓Qd↑).	Comprehensive explanation of how equilibrium is restored with specific reference to data/graph. Uses appropriate economic terms. • explains surplus using data correctly • explains why price will fall (kiwifruit growers will reduce price to get rid of unsold stock) • applies law of supply (ie P→Qs→) • applies law of demand (ie P→Qd↑) • equilibrium restored at Pe \$4 & Qe 8000 tonnes.

N0 = No response; insufficient relevant evidence.



(b) Possible reasons for the decrease in supply may be:

- increased costs of production (eg cost of labour, fertilisers)
- disease (or weather killing off plants)
- indirect taxes.

These will reduce the profitability of kiwifruit, and so less will be supplied at each and every price.

Demand curve shifts to the right to D1, showing an increase in demand as the reported nutritional benefits will mean more kiwifruit will be demanded at each and every price.

Three possible answers depending on extent of shift of Demand curve are:

- (Based on the graph above, with shift of demand less than shift of supply): The resulting effect is an increase in price from Pe to P1, and decrease in quantity from Qe to Q1. There is an increase in price because both the increase in demand and decrease in supply cause price to rise. However, there has been a decrease in quantity because the decrease in supply is more than the increase in demand
- (Based on a graph with equal shift of demand and supply): The resulting effect is an increase in price from Pe to P1, with no change in quantity. There is an increase in price because both the increase in demand and decrease in supply cause price to rise. However, there is no change in quantity because the increase in demand is cancelled out by an equal decrease in supply.
- (Based on a graph with shift of demand greater than shift of supply): The resulting effect is an increase in price from Pe to P1 and quantity from Qe to Q1. There is an increase in price because both the increase in demand and decrease in supply cause price to rise. There has also been an increase in quantity because the increase in demand is more than the decrease in supply.

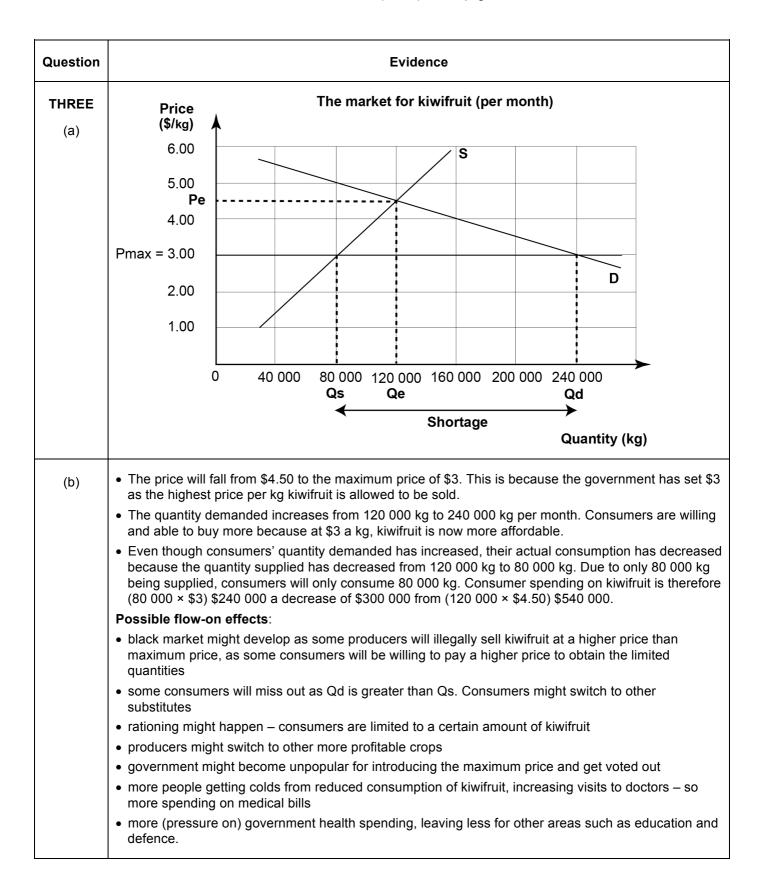
Effect on kiwifruit growers' revenue:

- (Based on graph above, with shift of demand less than shift of supply): As the price increase from Pe
 to P1 is greater than the quantity decrease from Qe to Q1, kiwifruit growers' revenue increases [by
 (P1 × Q1) (Pe × Qe)].
- (Based on graph with equal shift of demand and supply): The higher price of P1 with no change in quantity means that kiwifruit growers are now receiving more revenue for the same amount sold. For the same amount of kiwifruit of Qe sold, they are now receiving (PeP1 × Qe) more.
- (Based on graph with shift of demand greater than shift of supply): At the higher price of P1 kiwifruit growers are selling more kiwifruit, ie Q1 kg. This means kiwifruit growers' revenue increases [by (P1 × Q1) (Pe × Qe)].

Judgement Statement – Question Two

N1	N2	А3	A4	M5	М6	E7	E8
Shows partial understanding with only TWO of • shifts demand curve to right • identifies a rise in price • identifies a reason for the decrease in supply • states demand increases • states new quantity inc / dec / no change • states kiwifruit growers' revenue increases.	Shows partial understanding with THREE of: • shifts demand curve to right • identifies a rise in price • identifies a reason for the decrease in supply • states demand increases • states new quantity inc / dec / no change • states kiwifruit growers' revenue increases.	Shows understanding with FOUR of: shifts demand curve to right identifies a rise in price identifies a reason for the decrease in supply states demand increases states new quantity inc / dec / no change states kiwifruit growers' revenue increases.	Shows breadth of understanding with FIVE of: • shifts demand curve to right • identifies a rise in price • identifies a reason for the decrease in supply • states demand increases • states new quantity inc / dec / no change (consistent with graph) • states kiwifruit growers' revenue increases.	Detailed explanation of the combined changes in demand and supply with FOUR of: • shifts demand curve to right • explains why supply decreases • explains why demand curve shifts to right • explains combined effect on price or quantity • explains kiwifruit growers' revenue increases.	Detailed explanation of the combined changes in demand and supply. • Explains combined effect on price or quantity AND THREE of: • shifts demand curve to right • explains why supply decreases • explains why demand curve shifts to right • explains kiwifruit growers' revenue increases.	Comprehensive explanation of the combined changes in demand and supply on the market for kiwifruit, with ALL of: Iinks changes in price to the combined effect of changes in D and S Iinks increase / decrease or non-change in quantity to the extent of change in D and S curves Iinks increase in kiwifruit growers' revenue to increase in price combined with increased quantity sold (or no change or smaller fall). Reference to Pe, P1, Qe, Q1 and revenue areas are mostly correct and mostly consistent with changes shown on graph Only minor errors in use of economic terms.	Comprehensive explanation of the combined changes in demand and supply on the market for kiwifruit, with ALL of: Iinks changes to price to the combined effect of changes in D and S Iinks increase / decrease or non-change in quantity to the extent of change in D and S curves Iinks increase in kiwifruit growers' revenue to increase in price combined with increased quantity sold (or no change or smaller fall). Reference to Pe, P1, Qe, Q1 and revenue areas are correct and consistent with changes shown on graph Economic terms are correct.

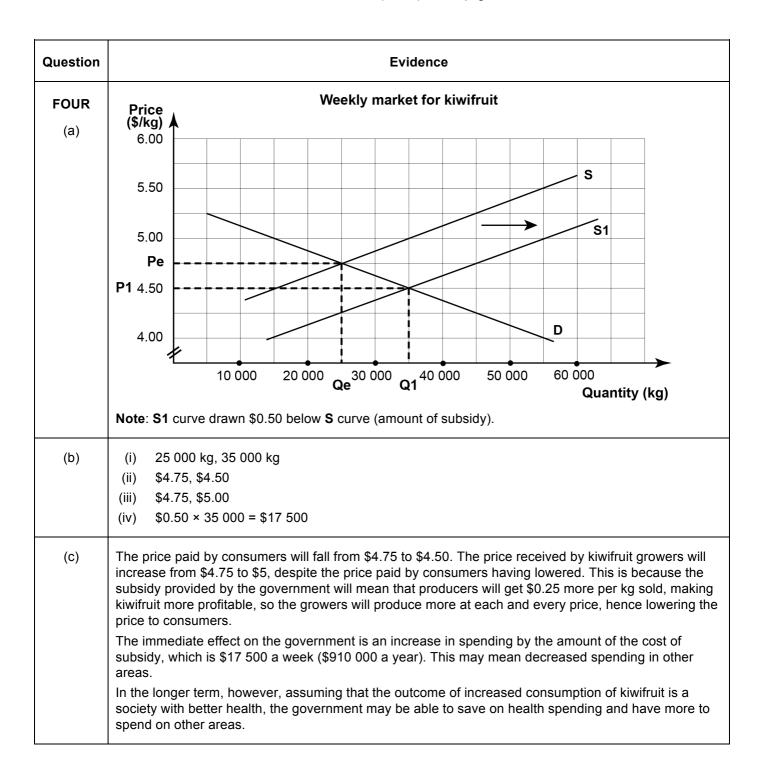
 ${\bf N0}$ = No response; insufficient relevant evidence.



Judgement Statement – Question Three

N1	N2	А3	A4	M5	М6	E7	E8
Shows partial understanding with only TWO of: • labels Pe and Qe correctly • labels Qd correctly • labels Qs correctly • labels as correctly • labels correctly	Shows partial understanding with THREE of: • labels Pe and Qe correctly • labels Qd correctly • labels Qs correctly • labels correctly • labels shortage correctly.	Shows understanding with THREE of: • labels Pe and Qe correctly • labels Qd correctly • labels Qs correctly • labels shortage correctly • labels shortage correctly • labels shortage correctly • labels shortage correctly • price decreasing • quantity demanded increasing • actual quantity consumed decreasing • consumer spending decreasing.	Shows breadth of understanding with THREE of: Iabels Pe and Qe correctly Iabels Qd correctly Iabels Qs correctly Iabels shortage correctly AND states THREE of: price decreasing quantity demanded increasing actual quantity consumed decreasing consumer spending decreasing.	Detailed explanation of effect of maximum price with ALL of: • labels Pe and Qe correctly • labels Qd correctly • labels Qs correctly • labels shortage correctly • available shortage correctly • price decreasing • quantity demanded increasing • actual quantity consumed decreasing • consumer spending decreasing. • ONE flow-on effect to society.	Detailed explanation of effect of maximum price with ALL of: • labels Pe and Qe correctly • labels Qd correctly • labels Qs correctly • labels Shortage correctly • and correctly • labels shortage correctly • price decreasing • quantity demanded increasing • actual quantity consumed decreasing • consumer spending decreasing. • ONE flow-on effect to society.	Comprehensive explanation of the effect of maximum price by explaining THREE of: • change in consumer spending • change in price • change in quantity demanded • TWO flow-on effects to society. Figures mostly correct.	Comprehensive explanation of the effect of maximum price by explaining • change in consumer spending AND TWO of: • change in price • change in quantity demanded • TWO flow-on effects to society. Figures and economic terms are correct.

N0 = No response; insufficient relevant evidence.



Judgement Statement – Question Four

N1	N2	А3	A4	M5	M6	E7	E8
Shows partial understanding with only ONE of: • shifts the supply curve to the right • labels a lower price • labels a higher quantity.	Shows partial understanding with TWO of: • shifts the supply curve to the right • labels a lower price • labels a higher quantity.	Shows understanding with ALL of: • shifts the supply curve to the right • labels a lower price • labels a higher quantity.	Shows breadth of understanding with ALL of: • shifts the supply curve to the right correctly • labels a lower price • labels a higher quantity AND TWO of: • quantity consumers buy before and after • price consumers pay before and after • price kiwifruit growers receive before and after • cost of subsidy to government. (Allow for carry-through errors.)	Detailed explanation of effect of subsidy. • Shifts S to the right correctly AND Explains by correctly stating THREE of: • quantity consumers buy before and after • price consumers pay before and after • price kiwifruit growers receive before and after • cost of subsidy to government.	Detailed explanation of effect of subsidy. • Shifts S to the right correctly AND Explains by correctly stating FOUR of: • quantity consumers buy before and after • price consumers pay before and after • price kiwifruit growers receive before and after • cost of subsidy to government.	Comprehensive explanation of the effect of subsidy by explaining: • change in price consumers pay before and after • change in price kiwifruit growers receive before and after • cost of subsidy to government • the longer term benefit to government. Figures must be correct on page before (but do not need to be repeated here) Only minor errors in use of economic terms.	Comprehensive explanation of the effect of subsidy by explaining: • change in price consumers pay before and after • change in price kiwifruit growers receive before and after • cost of subsidy to government • the longer term benefit to government. Figures and economic terms are correct, and at least two figures cited in the paragraph.

N0 = No response; insufficient relevant evidence.

Judgement Statement - Overall

	Not Achieved	Achievement	Achievement with Merit	Achievement with Excellence
Score range	0 – 8	9 – 17	18 – 24	25 – 32