

Coimisiún na Scrúduithe Stáit State Examinations Commission

Leaving Certificate 2015

Marking Scheme

Agricultural Economics

Higher Level

Note to teachers and students on the use of published marking schemes

Marking schemes published by the State Examinations Commission are not intended to be standalone documents. They are an essential resource for examiners who receive training in the correct interpretation and application of the scheme. This training involves, among other things, marking samples of student work and discussing the marks awarded, so as to clarify the correct application of the scheme. The work of examiners is subsequently monitored by Advising Examiners to ensure consistent and accurate application of the marking scheme. This process is overseen by the Chief Examiner, usually assisted by a Chief Advising Examiner. The Chief Examiner is the final authority regarding whether or not the marking scheme has been correctly applied to any piece of candidate work.

Marking schemes are working documents. While a draft marking scheme is prepared in advance of the examination, the scheme is not finalised until examiners have applied it to candidates' work and the feedback from all examiners has been collated and considered in light of the full range of responses of candidates, the overall level of difficulty of the examination and the need to maintain consistency in standards from year to year. This published document contains the finalised scheme, as it was applied to all candidates' work.

In the case of marking schemes that include model solutions or answers, it should be noted that these are not intended to be exhaustive. Variations and alternatives may also be acceptable. Examiners must consider all answers on their merits, and will have consulted with their Advising Examiners when in doubt.

Future Marking Schemes

Assumptions about future marking schemes on the basis of past schemes should be avoided. While the underlying assessment principles remain the same, the details of the marking of a particular type of question may change in the context of the contribution of that question to the overall examination in a given year. The Chief Examiner in any given year has the responsibility to determine how best to ensure the fair and accurate assessment of candidates' work and to ensure consistency in the standard of the assessment from year to year. Accordingly, aspects of the structure, detail and application of the marking scheme for a particular examination are subject to change from one year to the next without notice.



Marking Scheme and Expected Responses for use with the Marking Scheme

In considering the marking scheme the following points should be noted:

- The Expected Responses presented are not exclusive or definitive. Marks may be awarded for any other correct answers.
- The Expected Responses in many cases contain key phrases which must appear in the candidate's answer in order to merit the assigned marks.
- Further relevant points of information presented by candidates are marked and rewarded on their merits.

The detail required in any answer is determined by the context and the manner in which the question is asked and by the number of marks assigned to the answer in the examination paper. Requirements may therefore vary from year to year.

Leaving Certificate Examination, 2015 AGRICULTURAL ECONOMICS - Higher Level

Marking Scheme

PART I(120 Marks)20 QUESTIONS – 15 QUESTIONS TO ANSWER.

ALL QUESTIONS CARRY EQUAL MARKS (8 MARKS)

1.	4 @ 2 marks each	11.	2 @ 4 marks each
2.	2 @ 4 marks each	12.	8 marks (3m + 3m + 2m)
3.	8 marks	13.	2 @ 4 marks each
4.	2 @ 4 marks each	14.	8 marks
5.	Definition: 4 marks (2m + 2m)	15.	2 @ 4 marks each
		16 .	2 @ 4 marks each
6.	2 @ 4 marks each	17	2 @ 4 marks aach
7.	2 @ 4 marks each	17.	
0	2 @ 4 marks aash	18 .	2 @ 4 marks each
ο.		19.	2 @ 4 marks each
9 .	2 @ 4 marks each	20	2 @ 4 marks as sh
10 .	8 marks (3m + 3m + 2m)	20.	2

PART 2 (200 Marks)

4 QUESTIONS TO ANSWER AT 50 MARKS EACH.

1.	(a)	(i)	Explanation:	4m + 4m	8 m	
		(ii)	Three reasons	3 @ 4 m each	12 m	20
	(b)	(i)	PED:	2 @ 4 m each	8 m	
			Elastic or inelastic:	2 @ 2 m each	4 m	
		(ii)	Calculate change in TR:	2 @ 4 m each	8 m	20
	(c)		Two factors:	2 @ 5 marks (3	+ 2)	10
						[50 marks]
2.	(a)	т	wo arguments:	2 @ 9 m each (5 m + 4 m)	18
	(b)	Т	wo measures:	2 @ 7 marks (4	m + 3 m)	14
		-				4.0
	(C)	I	nree support schemes:	3 @ 6 marks (3	m+3 m)	⊥ð [50 marks]
2	(-)	Creab				
3.	(a)	Graph:	Each curve: 6 pts @	9 6 m each 1 m each]	24 m	
			Title Labelling the axes:	2m 4 m (2 @ 2	m) 6 m	30
			Lubening the unes.	4 11 (2 @ 2	iii) 0 iii	50
	(b)	(i)	Short or Long Run	2 m 5 m (2 + 2)	7 m	
			Reason	5 111 (5 + 2)	7 111	
		(ii)	Explanations	6 m (3 + 3)	6 m	
		(ii)	Max profit identified	: 5 m	7	20
			Reason:	2 [1]	7 m	20

[50 marks]

4.	(a)	(i)	FFI and direct p	ayments	9 m (3 @ 3 m)	9 m		
		(ii)	Three reasons		3 @ 5 m (3 + 2)	15 m		24
	(b)	Possible	opportunities:	7m (4 +	3) + 6m (4 + 2)	13 m		
		Possible	challenges:	7m (4 +	3) + 6m (4 + 2)	13 m		26
							[50	marks]
5.	(a)	Terms o	of Trade		5 m + 5 m	10 m		
		Calculat	ion outlined		6 marks	6 m		16
	(b)	Impact	of decline		6 m + 4 m	10 m		10

(c)	Graph trends:	3 @ 3 m	9 m	
	Possible reasons:	3 @ 5 m	15 m	24

[50 marks]

	()			[50 marks]
	(b)	Three factors:	3 @ 6 marks (3 + 3)	18
6.	(a)	Partial Budget Surplus/deficit	25 figs @ 1m 25 m 7 marks 7 m	32

PART 1 (120 marks) (Answer 15 questions from 20. Eight marks per question)

1.	1. Is each of the following statements true or false? (Tick one answer in each case).				
			True	False	
	(i)	Economics is a social science	\checkmark		4 x 2m
	(ii)	The total supply of agricultural land is highly price elastic		\checkmark	
	(iii)	EU member states can opt out of the Common Agricultural Policy		\checkmark	
	(iv)	The National Farm Survey is conducted by the Central Statistics Office		V	
2.	Com	plete the following statement by circling the appropriate word	l in each	case:	
	In a	perfectly competitive market the demand curve for each individ	ual firm'	S	
	proc	luct or service is vertical / horizontal in shape and has a price e	lasticity	of	4 + 4
	dem	and value equal to zero (infinity.			
3.	Expl	ain the term 'Economic Growth'.			
	An ecc	nual percentage increase in volume of goods and services produ pnomy. / Changes in real Gross National Product (GNP) or real G	ced in th ross Don	ne nestic	4 + 4
	Pro	oduct (GDP)			
4.	Defi	ne the accounting term 'Net Worth' in a farming context and s	tate in w	vhich	
	Tina	ncial statement from the list below you would expect it to app	ear.		
	(i)	Definition : Net worth is the value of the farmer's equity or ow farm. / It is the difference in value between the total assets an	vnership d total li	of the abilities	4.55
		of the farm.			4m
	(ii)	Financial statement:			
		Trial balance 🛛 Profit & loss account 🗆 Balance she	eet 🗹		4m
F	Dof	no the term (Intermediate Input) and list two examples from a		•	
5.	Dell	ne the term intermediate input and list two examples from a	gricultur	с.	4m
	(i)	Definition : The products of other industries which are employed They would include both material and service inputs and are g immediately	ed in farı enerally	ming. used up	(2 + 2)
	(;;)	Example: Fortilizer, gron sprays fuel animal feed concentrate	votori	2224	2m + 2m
		expenses, repairs to machinery.	s, veteri	iidi y	

6.	5. The table below shows the price series for sheep meat. Calculate the values for A and B.					
	Year	1 (base vear)	2	3	4	
	Price (€/100kgs)	240	264	276	B	1
	Price index	100	A	115	150	1
	A : 110 (264/	240*100)	B : 360 (240/100*150)		2 x 4m
7.	State two contributic economic contributic	ons agriculture mak on.	kes to Irish so	ciety, other th	an its	
	 Management/protection of habitats Contribution to maintaining vibrant communities in rural and remote areas Food security Maintenance of the aesthetic beauty of the countryside (tourism). 					
8.	. What change in agricultural wages and labour employed should result from an increase in the supply of agricultural labour?					
		Rise	Fa	11 1	No change	
	(i) Wages		5	Z		4m
	(ii) Labour employe	ed 🗹				4m
9.	Identify the correct a statistics for 2013.	pproximate value	for each of th	e following Iri €hn	sh national	
	(i) Total Single Far	m Payment expend	liture 0.7		í <u>3.2</u> □	4m
	(ii) Value of agri-fo	od exports	1.4	5.5	10.0	4m
10.	Name three industrie	es that comprise th	e Primary Se	ctor in Ireland		
	(i) Agriculturo	e (ii) Forest	ry (ii	i) Fishing		3 + 3 + 2
11.	What type of good is	being described in	each of the f	ollowing state Normal good	ements? Inferior good	
	(i) A percentage in percentage incr	crease in income le rease in quantity de	eads to a emanded.			4m
	(ii) A percentage in percentage dec	crease in income le rease in quantity de	eads to a emanded.		\checkmark	4m

12.	2. What type of organisation is each of the following?				
		Public company	State-sponsored body	Voluntary body	
	(i) Bord Bia		\checkmark		3m
	(ii) Glanbia	\checkmark			3m
	(iii) Macra na Feirme			\checkmark	2m
13.	Name two types of direct p	payments reco	eived by Irish farmers	under the CAP.	
	 Single farm payment / REPS/AEOS payments Disadvantage areas pare GLAS / Greening Young Farmers' Payme 	Basic Paymen yments ent	t Scheme		2 x 4m
14.	 4. State one competitive advantage for cereal production in Ireland. Significant livestock enterprises, resulting in a strong domestic feed market, with approximately 75% of domestic cereal production going to this market, Suitable climate and soils – Ireland's cereal yields are among the highest internationally, with winter wheat yields among the highest in the world. Strong technical ability of growers arising from years of experience in sector and backing of research and development Crop production is a lower emitter of greenhouse gases per hectare than livestock based systems. 				
15.	Circle which one of the fol for your answer:	lowing is not a	a factor of productior	and give a reason	
	(i) Land Labour	Wages	Capital Manageme	ent/Enterprise	4m
	(ii) Reason : 'Wages' is factor of p productio	s the price pro production. T nn.	ducers pay for using L he payment for it is no	abour, which is a ot a factor of	4m
16.	What likely effect would a currencies have on each of	general fall ir the following	the value of the euro ? Increase	D against other Decrease No change	
	(i) Price of Irish dairy produ	cts in German s	supermarkets.		4m
	(ii) Quantity of Irish lamb de	manded by UK	consumers.		4m

17.	'Capital expenditure should be spread over a number of years in farm accounts by entering part of the cost each year under a heading called A , which is generally calculated using either the straight line method or B method'. Write the appropriate word(s) for A and B.				
	Α.	Depreciation	4m		
	В.	Declining / diminishing / reducing balance	4m		
18.	State two other than Incom Tastes	variables that affect the quantity demanded of an agricultural product, its price. e and preferences / influence of advertising	2 x 4m		
	SeasonPricesFood of	nality of substitute and complementary goods in consumption quality.			
19.	State two can be use Enabli monite Contro Contro Identif Smart	ways in which information and communications technology (ICT) d by Irish farmers to improve land management. ng the better measurement of land fertility/nutrition / Sensors that or temperature in moisture and soil. olling grazing times to optimise benefits ol strip grazing to maximise benefits fying optimal time to harvest irrigation systems / wireless fencing systems.	2 x 4m		
20.	State one arising fro	potential opportunity and one potential threat for the Irish beef sector m EU free trade talks with the USA.			
	(i) Opport • • •	tunity: Access to premium beef markets in USA Limit the ability of governments to intervene or distort markets Driver of R&D Development of value added products.	4m		
	(ii) Threat • •	: Increased competition force prices down for Irish farmers Issues over food quality (use of hormones/antibiotics or GM foods).	4m		



(b) In the case of both Good X and Good Y:

(i) Calculate the Price Elasticity of Demand (PED) revealed by the shift in supply and state whether each product is price elastic or inelastic.

Formula:
$$PED = \frac{\Delta Q}{\Delta P} \times \frac{P_1 + P_2}{Q_1 + Q_2}$$

12m	Elastic/inelastic	PED	(P2+P1)/(Q2+Q1)	ΔQ/ΔΡ	
(4m+2m)	Inelastic	-0.2	0.4 (40/100)	-0.5 (-10/20)	PED X
+ (4m+2m)	Elastic	-2.25	0.3 (24/80)	-7.5(-30/4)	PED Y

(ii) Calculate the change in total revenue created by the shift in supply for each good.

Total Revenue (TR) = Price X Quantity	l
Good X: Change in TR = (€30 x 45) - (€10 x 55) = €1,350 - €550 = plus €800	4m
Good Y: Change in TR = (€14 x 25) - (€10 x 55) = €350 - €550 = minus €200	4m

(c) Outline two factors that influence the price elasticity of demand for a good.

- The availability and closeness of substitutes: The availability of close substitutes for a good or service increases the price elasticity of demand. The greater the degree of substitutability, the more elastic the demand. Goods that have close substitutes available will tend to exhibit elastic demand, whereas the demand for goods for which there are no substitutes will tend to be more inelastic.
 10m [2 x 5m (3+2)]
- The proportion of income spent on the good: The greater the proportion of income consumers spent on a good, the more elastic the demand.
- Sensitivity to price change: The more time consumers have to adjust to a price change or the longer that a good can be stored without losing its value, the more elastic is the demand for that good. Elasticity of demand tends to be more elastic in the long run than the short run.
- Nature of the good: Necessary goods or those with higher brand loyalty may have lower price elasticity of demand (price inelastic). Goods regarded as luxury goods will tend to be more price sensitive / price elastic.

50 m

Question 2	Marks
(a) Outline two arguments in support of government intervention in the farmin	g
 sector. Food security reasons: ensuring that the nation is capable of producing enough food for its population. Food safety reasons: ensuring that the food the nation produces and import is safe to eat. Reduce instability in price and markets: to guarantee ongoing supply of agricultural output and maintenance of steady food prices for consumers. Promotion of agricultural productivity: to counteract the ongoing tendency for agricultural output prices and therefore incomes to fall behind the non-agricultural sector in real terms over time. Environmental reasons: ensuring that agricultural production and imports not cause environmental damage, loss of habitat, damaged waterways, or contamination of groundwater. Regional and way of life reasons: ensuring survival of the family farm and ensuring the regional economy continues to be underpinned by farming. 	18m [2 x 9m rts (5+4)]
 Marketing and training: through state bodies such as Bord Bia and Teagasc The Irish Government's Budget 2015 introduced several tax measures aimed at farmers. These measures included: Increasing the Income Tax exemption thresholds for leased land income by 509 Better targeting of agricultural relief from Capital Acquisitions Tax (CAT) in favour of agricultural property gifted to or inherited by active farmers as oppose to non-active farmers. (b) Discuss how both measures mentioned in the box above may help support the development of a successful agricultural sector in traland. 	%. sed e
1: Lessors of land are exempt from income tax on progressively increasing amounts linked to lease duration (5-7, 7-10, >10 years). These income tax thresholds have been increased by 50%, thus encouraging more leasing of land particularly on a longer term basis. The introduction of a fourth threshold encourages longer-term leasing and will also work to help new entrants and younger farmers secure long-term financing, as the term on such financing is usually linked to the length of the land lease.	14m [2 x 7m ' (4+3)]
2: Better targeting of agricultural relief from Capital Acquisitions Tax to qualifie or full-time farmers: This measure was introduced to discourage the transfer of land to individuals who are not actively farming (i.e. spending less than 50% of time farming) or do not hold farming qualifications. This will also work to encourage the transfer of land to younger farmers, who are more likely to be qualified and have an incentive to improve the land's long term productivity. T relief from CAT is also available to individuals who are not active farmers but w lease out the property on a long term basis to active farmers for agricultural use	ed he ho e.

1. Enha (i)	Ancing the competitiveness of Irish farms: examples of measures: Young Farmers Installation Aid scheme: The Young Farmer's Installation	
(i)	Young Farmers Installation Aid scheme: The Young Farmer's Installation	
	Scheme (Installation Aid) supports the entry of young persons into the agriculture sector. It provides for a one-off grant of €15,000 to be paid to trained farmers between the ages of 18 and 35 who have been set-up in farming for the first time on or after 1 January 2007	18n [3 x 6 (3+3
(ii)	Early Retirement Scheme: was introduced June 2007. Farmers who retire early under the scheme may be eligible for a pension of up to €15,000 a year for up to 10 years.	
(iii)	On Farm Capital Investment schemes : Grant aid is made available for various capital investment projects on farms e.g. grants for diary equipment (will be of particular importance under the abolition of milk quotas in 2015), slurry storage facilities (e.g. meet requirements of the nitrates directive), farm buildings, environmentally friendly initiatives (e.g. biofuels), investments carried out by young farmers.	
2. Pro	omoting environmental protection: examples of measures:	
(i)	REPS/AEOS : a scheme designed to reward farmers for carrying out farming activities in an environmentally friendly manner and to bring about environmental improvement on existing farms. Based on farmers first drawing up an agri-environment plan for their farm and meeting certain environmental requirements.	
(ii)	Least Favourable Area (Disadvantaged Area) scheme: payments offered to farmers to introduce the Scheme with reference to ensuring the continued conservation of the countryside in mountain areas and other less favoured areas. Seen as a form of compensation for lower productivity and higher unit costs associated with farming in such remote and low land quality areas.	
3. In	nproving the quality of life in rural areas: examples of measures:	
	LEADER programmes: Provides support and funding for entrepreneurs or community groups interested in establishing a business or a service in rural areas. Can provide grants of up to €500,000 for community groups and up to €150,000 to individual entrepreneurs.	

<u>)</u>	Jestion 3										Marks
1)	Inet	able	below sh	lows the d	butput and		John s da	iry tarm.			
		Out	tput ('000) litres)	0	2	4	6	8	10	
		TC	otal Costs	(€)	100	150	200	350	700	1200	
	Assume John earns revenue of €100 per1,000 litres of milk produced. On a single graph with output on the x-axis and cost/revenue on the y-axis, plot all of the following (you may use graph paper to complete this question.):										
		 (i) Total costs (label the curve TC) (ii) Total revenue (label the curve TR) (iii) Total fixed costs (label the curve FC) (iv) Total variable costs (label the curve VC) 									
		Γ		Total	Total	Fixed	Variable				
		_	Output	Costs	Revenue	Costs	Costs	Profit	_		
		_	0	100	0	100	0	-10)		
		-	2	200	200	100	100	20	<u>)</u>		
		-	4	350	600	100	250	200	<u>ן</u>		
		_	8	700	800	100	600	10	5 1		
			10	1200	1000	100	1100	-20	<u>)</u>		
Cost/Revenue	1000 800							4		VC TR	30m: Curve (4 x 6n Title 2m Label: (2 x 2n
	400									(MP)	
	200		\neq							FC	
	0	0	2		4 Outr	6 Dut	8		10		

(b) W	With reference to the graph you have drawn in part (a):					
(i)	Does the graph represent the short run or long run? Provide a reason for your answer.					
	Short run: the fact the farmer has costs of €100 when output is zero, shows that there are fixed costs of €100. Fixed costs can only occur in the short-run, as all costs are variable in the long-run.	7m: [SR 2m Reason (3 + 2)]				
(ii)	Explain why variable costs begin to rise by larger amounts after 4,000 litres of milk are produced.					
	Variable costs increase by larger increments after 4,000 litres of output due the law of increasing costs (or law of diminishing returns). In the short-run, as more of the variable input is added to a given quantity of fixed inputs, the marginal product produced eventually begins to diminish. As a result, the variable costs associated with producing addition units of output are also forced to increase by larger increments.	6m (3 + 3)				
(iii)	Identify on your graph the level of output at which John maximises profits. Provide a reason for your answer.	7m: MP				
	Profit maximised: 6,000 litres of output, as this is where the difference between total revenue and total costs are at the maximum (€250)	5m Reason 2m				
		50m				



 Infrastructure and proximity to urban areas: the remote locations and difficulties surrounding access to land in the West and Border regions may explain the relatively high costs of farming this land. Demographics: the age profile, particularly amongst the farming community, tends to be older in West and Border regions. This can lead to lower levels of investment and productivity on farms. In other regions, younger and better qualified farmers are more likely to avail of modern technical and scientific developments to increase productivity and returns. 	
 (b) "Since 1984, the [dairy] industry has operated within a quota environment. The shackles come off next April and following that we will have an exciting mix of opportunity and challenge for all stakeholders." Minister Simon Coveney, National Dairy Conference 201 Discuss the possible opportunities and challenges facing Irish dairy farmers 	1
 Possible opportunities: With the highest margins found amongst major farm types, many dairy farmers are in a good financial position to invest in expansion. Because of its pasture-based system, Irish dairy farmers have a natural cost advantage in dairy production over rivals. Outlook in the medium term in terms of milk prices is positive due to significant world demand for dairy products based on increasing world population and economic growth in emerging economies. As one of the largest dairy exporters in the world, Ireland has a well-established processing infrastructure and reputation to build upon in the future. There is significant scope for the Irish dairy sector to expand through the creation of more value added output. 	13m (4m+3m) + (4m+2m)
 Milk prices on the world market are highly volatile and can have a detrimental impact on farmers unless they closely monitor their cash flow Expansion in the dairy sector takes significant levels of investments in terms of equipment, land and breeding. Farmers need to be careful to plan and budget for such investment costs, particularly where financed using debt. Dairy farming is a significant emitter or greenhouse gases (e.g. methane). Some 30% of Irish emissions come from agriculture, far more than most EU countries. These emissions are expected to grow by a further 9% due to the impact of the Food Harvest 2020 and the removal of the milk quota. As such it is likely to continue being the focus of environmental concerns and regulations. Also taxpayers are open to severe penalties from the EU. Land availability and access can pose a major challenge to expansion. Dairy farms require land that is close to milking facilities and with good access to enable animals to walk to and from pasture and milking facilities. Access to finance can be an issue for many Irish dairy farms, as most are family run businesses 	13m (4m+3m) + (4m+2m)
ומווווץ ועון געטוובסכס.	50m

Que	estion 5	Marks
(a)	Explain what is meant by 'Terms of Trade' for agriculture and outline how it is calculated.	
	Terms of trade: describes how prices received by farmers for their goods or services move in relation to the price they must pay for inputs (i.e. factors of production).	10m (5 + 5)
	Computing the terms of trade: divide the output price index (e.g. agricultural output price index) by the input price index (e.g. agricultural input price index).	6m
(b)	Explain the impact a decline in the terms of trade may have on the financial returns for farmers.	
	If the ratio is declining it means farmers are receiving a lower output price relative to input prices. This can work to reduce the financial returns and income prospects on farms (i.e. price-cost squeeze). However, declining terms of trade do not take into account other potential sources of farm income such as direct payments or other measures farmers can use to reduce volume of inputs or increase output yields.	10m (6 + 4)
(c)	The graph below shows the terms of trade for Irish agriculture from 2007 to 2014. Describe the trends shown in the graph and outline possible reasons for these trends.	
	Terms of Trade for Irish Agriculture	
	Year	
	Decline in terms of trade 2007-2009: From 2007 to 2009 farms experienced a significant rise in the cost of inputs, particularly in the cost of fertilisers, energy and feedstuffs. This can be attributed to increases in oil prices at this time and the onset of the financial crisis. Farmers also saw a decline in output prices for crops and animals during this period as economic fallout of the financial crisis affected both domestic demand and that of our main export markets (UK and EU).	Trend 3m Reason 5m
	Increases in terms of trade 2009-2013: In the period following 2009, the terms of trade recovered primary due to rising output prices received by farmers. This can be attributed to the increasing demand from emerging markets and recovery in trade with existing export markets. Although in 2009 input prices declined following their initial spike in 2008, they have tended to rise again since 2010.	Trend 3m Reason 5m
	Decrease in terms of trade 2013-2014: the recent dip in terms of trade could be attributed to a decline in output prices including world milk prices and Irish beef prices. This could be partly explained by a reduction in demand for products such as milk from certain markets, especially China.	Trend 3m Reason 5m
		50m

Question 6						Marks
Sarah is considering buildings. Sarah plans to sell the The following are the • Sarah estimate shop, with each have earned r processing fac • To prepare the abattoir to build package the m • To convert he a loan costing could lease the • Running the su insurance. Sa at €400 per we	setting up a for e beef from the financial deta es her heifers the heifer prove evenue of $\in 3.2$ ctory instead, e beef for the tather the heife the to help ru	arm shop to a 50 heife ails for the will earn iding on a s5 per kg with an as farm shop ers for $\in 10$ ditional $\in 20$ in building nth. If she out to and in total $\in 22$ s to hire a n the shop	by converting some rs she rears on h e new farm shop. revenue of €8.50 verage 300 kg og of meat if she sem ssociated transpo of meat if she sem sociated transpo of meat farmes for 0 per head. The 1,000 in total. s into a farm sho does not set up other farmer for e 00 per month for on employee for 4	me unused far her farm each of per kg in the f meat. Sarah f her heifers to ort cost of €50 abattoir will of a farm shop, S €1,000 per and r lighting, hea 40 weeks of the	m year. farm would to a 0. val also take out take out tarah num. ting and e year	
(a) Using the above in covering its first y cost savings, if ap generated. Parti	nformation, p ear in operat plicable. Calo ial Budget An	orepare a ion, takin culate the alvsis of S	partial budget fo g into account r total deficit or s etting up a Farn	or the new fai evenues foreg surplus that w n Shop	rm shop gone and vill be	
Extra costs and revenue for	oregone		Extra revenue a	and costs saved		
Extra costs and revenue in	Workings	Total	Extra revenue a	Workings	Total	25m
Slaughtering costs	50*100	5.000	Beef sales	50*8.50*300	127.500	
Packaging	1.000	1.000				
Repayment of loan (shop) Lighting, heating &	240*12	2,880				
insurance	200*12	2,400				
Staff costs	40*400	16,000				
Revenue foregone			Costs saved			
Heifer sales	50*3.85*300	57,750	Transportation	500	500	
Rent foregone	1,000	1000				
Total		86,030	Total		128,000	
Surplus		41,970				7m
Pai	rtial budget sl	nould be ii	n appropriate foi	rmat.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

(b)	Other than financial planning, discuss three factors Sarah should also consider before setting up a farm shop.	
	 Skills and training: A decision has to be made on whether or not the farmer has the necessary skills and knowledge needed to run a farm shop. Training may be needed in running a small business and how to meet hygiene and food safety standards. 	18 m [3 x 6m (3+3)]
	• Market research: Research is needed to ensure there is sufficient demand in the area to sustain the business and to assess other competitors in the area.	
	• Location / access for customers: Farmer should take into account proximity to roads and other access routes, as well as the availability of parking.	
	• One stop shopping experience: Most consumers will look for a shop that can provide all they need in terms of shopping for family meals in one place. It is therefore important for the farmer to assess her ability to provide this service.	
	• Time management: If Sarah plans to continue operating as a farmer as well as running the farm shop, the ability to accomplish both tasks at the same time should be considered. Alternative options could be to hire employees to help, although this will entail additional costs.	
	 Product promotion and advertising: Sarah needs to take account how she will promote her product through means such as local radio/newspapers, flyers, signage, and seasonal promotions. 	
	• Compliance with regulations: Sarah will need to provide a safe environment for both customers and potential employees. Planning permission may be required if building facilities. Registration with HSE for purposes of health and safety will also be required.	
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