

**Penang Sangam High School**  
**Supplementary Resources**  
**Year 12 Agriculture**  
**Week 4 Worksheet**

1. The fermentation and refining of the plant tissue called feedstock produces
  - A. biofuels.
  - B. vaccines.
  - C. pesticides.
  - D. antibiotics.
  
2. Minerals which remain in soil after the evaporation of soil water increase soil
  - A. erosion.
  - B. salinity.
  - C. effluent.
  - D. siltation.
  
3. Which of the following machines would a farmer use for applying insecticides to trees in a citrus orchard?
  - A. Mist blower
  - B. Rotary tiller
  - C. Hydromulcher
  - D. Knapsack sprayer
  
4. Gross Margin is the tool used to calculate the expected returns of an enterprise when the limiting factor is
  - A. finance.
  - B. capital.
  - C. labor.
  - D. land.
  
5. A farmer calculated that the Return to Capital for his dalo crop was \$4.09. This means that the farmer will earn \$4.09 from every
  - A. \$1.00 which is invested.
  - B. kilogram of yield he sells.
  - C. man hour a laborer works.
  - D. hectare of land planted in dalo.
  
6. Soil organisms cause soft rocks to weather by
  - A. degrading toxins.
  - B. destabilizing structure.
  - C. adhering to large particles.
  - D. improving carbon sequestration.

7. Explain one positive effect which climate change has on the types of crops grown in Fiji.  
 8. Explain one initiative implemented by the World Health Organization which is aimed at reducing the spread of zoonotic diseases in Fiji.

9. State one reason why a farmer would purchase a tractor for the farm.

10. Differentiate between a mist blower and a knapsack sprayer in relation to energy source.

11. Below is a Whole Farm Budget for a mixed farm.

1. Capital Investment in Property		2. Anticipated Income	
	\$		\$
Land	440 000	Sale of goats	2 600
Buildings	244 000	Sale of cattle	37 000
Stock value	185 000	Sale of sheep	1 300
		Sale of milk	49 400
		Hiring out of machines	6 000
<b>Total</b>	<b>869 000</b>	<b>Total</b>	<b>96 300</b>

  

3. Anticipated Expenses		Total	
<u>Fixed Expenses</u>	\$	<u>Variable Expenses</u>	\$
Equipment depreciation	6 500	Pasture costs	1 000
Lease and land tax	10 800	Wages	12 000
Salaries	33 000	Transport	4 000
Interest on loans	2 200	Fuel	5 000
		Veterinary fees	500
		Power	5 000
		Water	2 000
<b>Total</b>	<b>52 500</b>	<b>Total</b>	<b>29 500</b>

Use the information above to calculate the farm's expected profit or loss.

12. Explain one reason why farmers prepare Enterprise Budgets.

13. Name the type of budget which a goat farmer would use to help determine if the farm should buy replacement does or raise its own.

The End