

LABASA SANGAM (SKM) COLLEGE

NAME: _____

HOME STUDY PACKAGE

YEAR: _____

YEAR 11 APPLIED MATHEMATICS

WORKSHEET 1

Instructions:

- Write the answers in the space provided.
- **File the lesson notes.**
- Return the **worksheet only**

Week 13 Activity

STRAND 6: TRIGONOMETRY

SUB STRAND: TRIGONOMETRIC GRAPHS

1. A trigonometric graph has the equation $y = 3 \cos 2\theta$
 - a) State the amplitude of this graph. (1 mark)
 - b) What is the period of this graph? (1 mark)
 - c) Sketch the graph for $0^\circ \leq \theta \leq 360^\circ$ (2 marks)

2. Sketch the graph of the function $y = -2 \sin 2\theta$ for $0^\circ \leq \theta \leq 360^\circ$ (2 marks)

3. Solve the following trigonometric equations:

a) $2 \sin x = 1$ (2 marks)

b) $2 - \cos \theta = 1$ (2 marks)

Instructions:

- Write the answers in the space provided.
- **File the lesson notes.**
- Return the **worksheet only**

Week 14 & 15 ACTIVITY

STRAND 7: STATISTICS

SUB STRAND: ANALYSIS AND INTERPRETATIO OF STATISTICAL DATA

1. Seven students sat for a test. Their scores were 100, 50, 45, 40, 80, 75, 45

Find

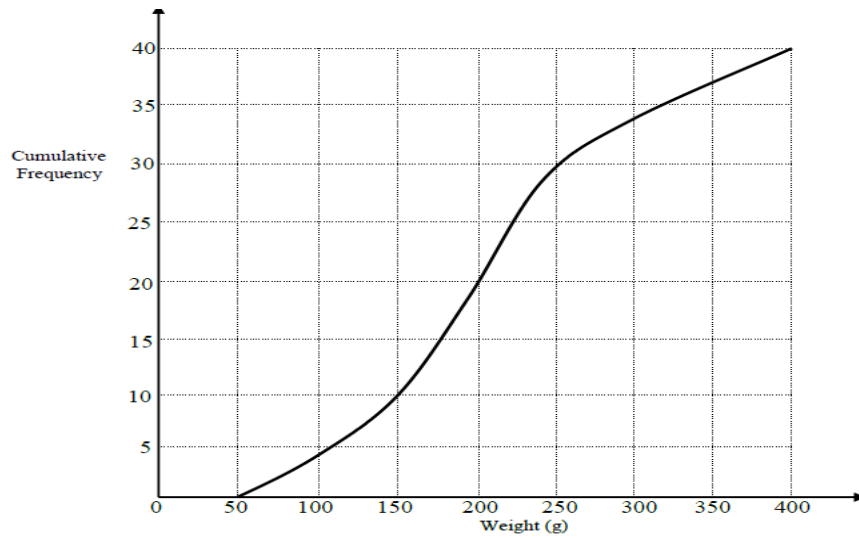
a) mean (1 mark)

b) median (2 marks)

c) mode (1 mark)

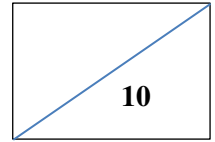
d) range (1 mark)

2. A sample of pebbles was collected from a beach and their weights were recorded. The cumulative frequency graph given below shows the results.



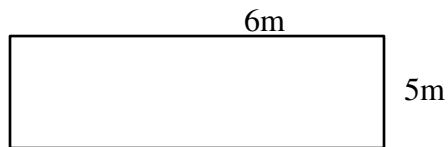
Use the graph to find:

- a) median (1 mark)
- b) inter-quartile range (2 marks)
- c) number of pebbles that weigh more than 150 g. (2 marks)

YEAR 11 MATHEMATICS LIFE SKILLS**WORKSHEET 1 (WEEK 13)****Strand 4: Trigonometry in Everyday Context**

Note: Refer to the lesson notes of week 13-15.

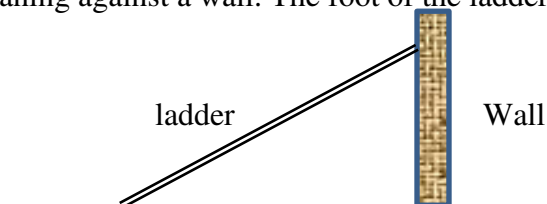
- 1) A builder laying the foundations of a garage wants to be sure he has the walls of the garage are at right angles. The length of the garage is 6m and the width is 5m.



Explain how measuring the length will check that the walls of the garage meet at right angles.

(2 marks)

2. A 5m ladder is leaning against a wall. The foot of the ladder is 3 m from the base of the wall.

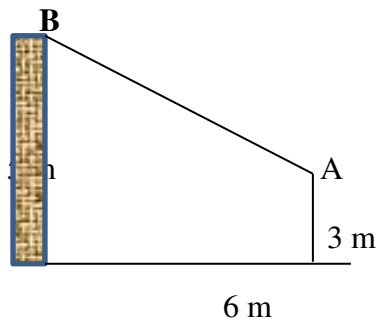


How far up the wall does the ladder reach?

(2 marks)

3. In the diagram AB is the sloping roof of a shed. Point A is 3m high, B is 5 m high. The width of the shed is 6 m

Find AB, the length of roofing iron needed for the roof.

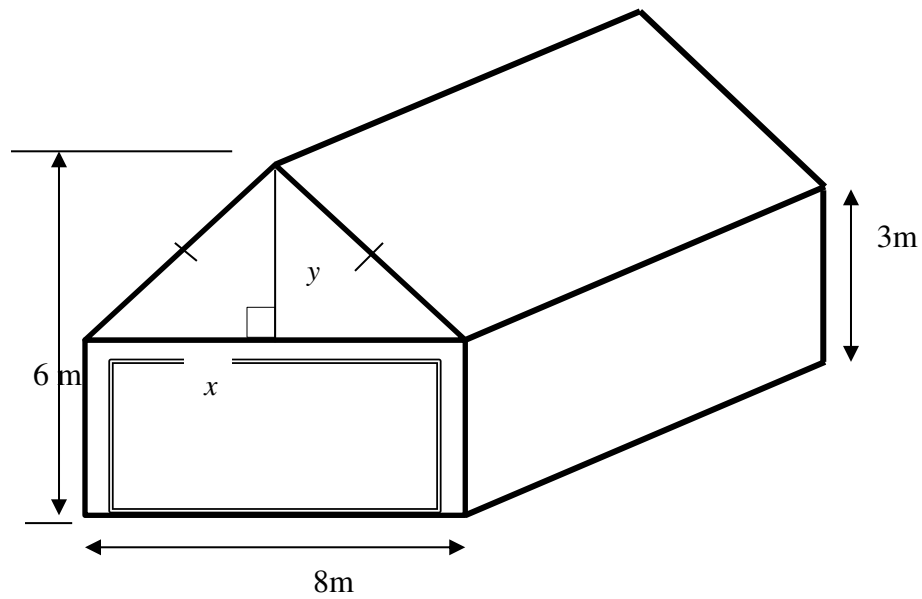


(2 marks)

4. A rectangular football field measures 56m by 100m. Calculate the distance across the field from one corner to the corner diagonally opposite.

(1 mark)

5. The following is a building sketch of a garage



- a) Find the value of x .

(1 mark)

b) Find the value of y .

(1 mark)

c) Find the value of z using Pythagoras Theorem.

(1 mark)

LABASA SANGAM (SKM) COLLEGE

HOMESTUDY PACKAGE 5

WORKSHEET NO: 1

STUDENTS NAME: _____

SUBJECT: ACCOUNTING

YEAR 11 _____

DUE DATE: 18/10/2021

Total marks: 10

Weighting: 5%

Instructions :

- I. Write the answers in the space provided at the back of this page.
- II. File the lesson notes.
- III. Return the **worksheets only** on the due date as stated above.

WEEK 13

1. Explain the purpose of each of the following;

a) Gross profit ratio

b) Mark up ratio

c) Debt to equity ratio

d) Debtors turnover

(4 marks)

2. State two limitations of analysis and interpretation of financial statements.

a)

b)

(2 marks)

3. Name two ratios that fall under the category of financial stability ratio .

(2 marks)

4. State two limitations of Ratio Analysis.

i)

ii)

(2 marks)

LABASA SANGAM (SKM) COLLEGE

HOMESTUDY PACKAGE 5

WORKSHEET NO: 2

STUDENTS NAME: _____

SUBJECT: ACCOUNTING

YEAR 11 _____

DUE DATE: 18/10/2021

Total marks: 10

Weighting: 5%

Instructions :

- I. Write the answers in the space provided at the back of this page.
- II. File the lesson notes.
- III. Return the **worksheets only** on the due date as stated above.

WEEK FOURTEEN

The following information given below has been extracted from the books of Singh Enterprises for the year ending 30th June 2020.

Statement of Financial Performance of Singh Enterprises For The Year Ended 30th June 2020

	\$
Sales (all credit)	90 000
Less cost of goods sold	<u>54 000</u>
Gross profit	36 000
Less operating expenses	<u>10 400</u>
Net profit	25 600

Statement of Financial Position of Singh Enterprises as at 30th June 2020

	\$	\$	\$
Capital at the beginning		28 400	
Add net profit		<u>25 600</u>	
		54 000	
Less drawings		<u>5 300</u>	
Capital at end			48 700
Current asset			
Accounts receivable	26 000		
Inventory	<u>43 600</u>	69 600	
Less current liabilities			
Accounts payable	19 400		
Bank overdraft	<u>10 300</u>	29 700	
Fixed asset			
Equipment (net)		<u>13 900</u>	

		53 800	
Long term liabilities			
Mortgage		5 100	
			48 700

Additional Information

- a) Opening accounts receivable on 1st July 2019 was \$24 000.
- b) The business operates for 300 days in a year.

Required

Using the information given, calculate the following ratios and percentages (correct to **two decimal places**) for the year ending 30th June 2020. **Show the formula and full working.**

	Ratios /percentages	Formula	Working	Answer
(a)	Net profit percentage			
(b)	Mark up percentage			
(c)	Acid test ratio			
(d)	Working capital in dollars			

(e)	Rate of return on owners equity			
(f)	Debt ratio			
(g)	Proprietorship ratio			
(h)	Accounts receivable turnover in days			
(i)	Debt to equity percentage			
(j)	Working capital ratio			

(10 marks)

FORMATIVE ASSESSMENT TWO

SHORT TEST

ACCOUNTING

YEAR 11

TOTAL MARKS: 20

NAME: _____

Weighting: 20%

Year 11__

Due Date: 18/10/21

Instructions :

- I. Write the answers in the space provided.
- II. Return the **short test** on the due date as stated above.

PART A MULTIPLE CHOICE

(5 MARKS)

1. Which of the following indicates the short term financial stability of the business?
 - A. Net profit ratio
 - B. Working capital
 - C. Return on Total assets
 - D. Debtors Turnover

2. Raki's Enterprise's financial position as at 31 December, 2013 was:

Current Assets \$45000	Fixed Assets \$125000
Current Liabilities \$22000	Term Liabilities \$38000
Capital – Sami \$110 000	

From the above information, the Debt to Equity percentage of the business would be:

A. 64.70 %

B. 54.55 %

C. 34.54 %

D. 20.00 %

3. One of the limitations of analysis and interpretation of financial statements is that it

A. allows comparison

B. helps in making decisions

C. is based on historical cost

D. helps to identify strengths and weaknesses

4. The following information concerns a local business as at 30th June 2014

Total assets	\$500 000
Non-current assets	\$350 000
Current liabilities	\$50 000
Equity ratio	0.75:1

Calculate the current ratio for the business

A. 0.33:1

B. 0.46:1

C. 2.33:1

D. 3.0:1

5. Young had the following account balances: Sales \$160 000, COGS \$46 000, total expenses \$6 240.

What was his net profit percentage?

A. 63.50%

B. 59.5%

C. 67.35%

D. 28.75%

6. State what each group of ratios listed below measure:

i) Financial Stability ratios

ii) Management Effectiveness ratios

(2 marks)

7. State a ratio that is important in evaluating the short term financial stability of the business.

_____ (1 mark)

8. CK's business operates in Suva. Given below is the Statement of Financial Position as at 31st October 2014.

	\$	\$	\$
Proprietorship			
Capital – Kaila Yee		100000	
Add Net profit		40000	
Less Drawings		10000	<u>130000</u>
Represented by:			
Assets			
Cash	40000		
Accounts Receivables	35000		
Property & Equipment	125000		
Inventory	10000	<u>210000</u>	
Less liabilities			
Creditors	25000		
Loan (Payable in 5 yrs)	55000	<u>80000</u>	
			<u>130000</u>

Additional Information

1. Sales all credit \$200 000
2. Gross profit \$44 000
3. Opening stock \$38 000
4. Account Receivables 31st October 2013 \$33 000

Required:

- a) Using the information above, calculate the following ratios and percentages for the year 2014. Show the formula and full working.
 1. Gross profit to sales ratio
 2. Net profit to sales percentage
 3. Acid test ratio
 4. Rate of stock turnover (days)
 5. Accounts Receivable turnover
 6. Working capital in dollars
7. Mark up- ratio
8. Working capital percentage

Ratios /percentages	Formula	Working	Answer
Gross profit to sales ratio			
Net profit to sales percentage			
Acid test ratio			
Rate of stock turnover in days			
Accounts receivable turnover			
Working capital in dollars			
Mark up- ratio			
Working capital percentage			

(12 marks)

LABASA SANGAM (SKM) COLLEGE
HOME STUDY PACKAGE – YEAR 11 AGRICULTURE
WORKSHEET 13-14

27TH Sep -1st Oct

(Based on notes Week 13-14)

NAME: _____

YEAR: 11____ (10 MARKS)

DUE DATE: 19/10/21

LIVESTOCK PRODUCTION

1. List 2 requirements of livestock. (2 marks)

1. _____

2. _____

2. Differentiate between **intensive and extensive** systems of raising livestock (2 marks)

3. State 1 challenges faced by the livestock industry with solutions (1mark)

4. State the **use** and **source** of the following:

FEED	USE	SOURCE
Water		
Energy		
Protein		

(3 marks)

5. Differentiate between **pasture mating and hand mating**. (2 marks)

LABASA SANGAM (SKM) COLLEGE
HOME STUDY PACKAGE – YEAR 11 AGRICULTURE
WORKSHEET 14-15

4TH - 8TH Oct

(Based on notes Week 14-15)

NAME: _____

YEAR: 11__ (10 MARKS)

DUE DATE: 19/10/21

LIVESTOCK PRODUCTION

1. State **one reason** behind the following practices (2 marks)

(a) Identification

(b) Dehorning

2. Complete the table on animal diseases (2 marks)

Disease	cause	symptoms	treatment	prevention
Enterotoxaemia				

3. State 2 effects of transport and movement on animals (2 marks)

1. _____
2. _____

4. Explain the following processes in milking of dairy does. (2 marks)

A. Cleaning

B. Stripping

5. Name 1 product formed by fermenting milk. (1 mark)

6. Describe the FIRST step involved in slaughtering animals for meat. (1 mark)

HOME STUDY PACKAGE

School: Labasa Sangam(SKM) College

Subject: Applied Technology

Worksheet Number: 1-2 / Week: 13

Year/Level: 11C/D/E

Student Name: _____

Date: 27th September 1st Oct 2021

Due Date: 18th Oct 2021.

Question 1

1. Define the following terms.

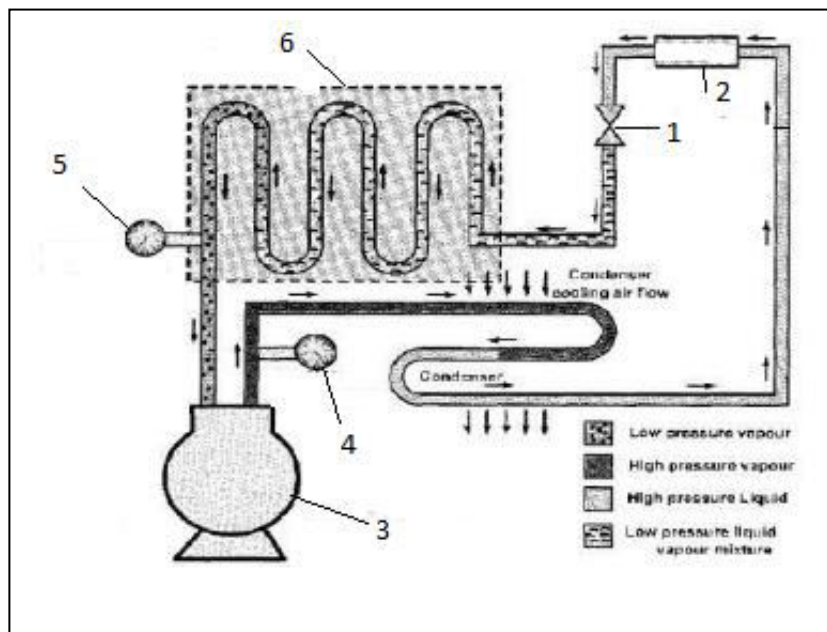
a. Refrigeration Effect

_____ (1mark)

b. Working Principle

_____ (1mark)

2. Label the diagram given below.



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

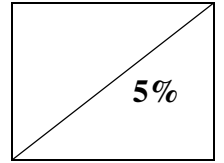
(6marks)



- a) _____
- b) _____
- c) _____
- d) _____

(2marks)

WORKSHEET ASSESSMENT – WEEK 13



QUESTION: 2 (10 MARKS)

Define the following terms given below

Shielded Metal Arc Welding

(1mark)

Specification.

(1mark)

Site Plan

(1mark)

2. Advantages of Manual Metal Arc Welding

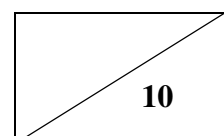
(1 ½ marks)

3. Disadvantages of SMAW

(1 ½ marks)

Draw a setup of the **cutting with Bench Shears** in the space provided.

(4marks)



HOME STUDY PACKAGE
LABASA SANGAM COLLEGE
WORKSHEET 13 -BIOLOGY -10 MARKS

NAME: _____

DUE DATE: 18/10/2021

YEAR: _____

1. Differentiate between species and organism (2marks)

2. Give two characteristics of a Population (2 marks)

3. List down 3 levels of ecological interactions (3marks)

4. Compare the 3 population distribution (3 marks)

LABASA SANGAM (SKM) COLLEGE

YEAR 11 CHEMISTRY

NAME: _____ YEAR: _____

WORKSHEET 12 (pages 10-16 strand 4 Materials notes)

[10 MARKS]

Duration: 1 Week Due Date: 18/10/21

1. State **2** benefits of copper to humans.

_____ (2 marks)

2. Copper is found in many different types of food sources. Give **1** of the top sources of copper food.

_____ (1 mark)

3. What is **copper toxicity**?

_____ (1 mark)

4. State **2** properties of non-metals.

_____ (2 marks)

5. Define **allotropes**.

_____ (1 mark)

6. State the **3** main allotropes of sulphur.

_____ (3 marks)

LABASA SANGAM (SKM) COLLEGE
YEAR 11 ECONOMICS WORKSHEET
HOME STUDY PACKAGE-5

Worksheet Number :1

Name of the Student: _____

Due Date: 27th September,2021

Year: _____

1. Define Free trade.

(1mark)

2.State two advantages of free trade.

(2marks)

3.State two disadvantages of free trade.

(2marks)

4. Define Protection.

(1mark)

5. State two reasons for protection

(2marks)

6. State two effects for protection

(2marks)

LABASA SANGAM (SKM) COLLEGE

YEAR 11 ECONOMICS WORKSHEET

HOME STUDY PACKAGE-5

Worksheet Number :2

Name of the Student: _____

Due Date: 27th September, 2021

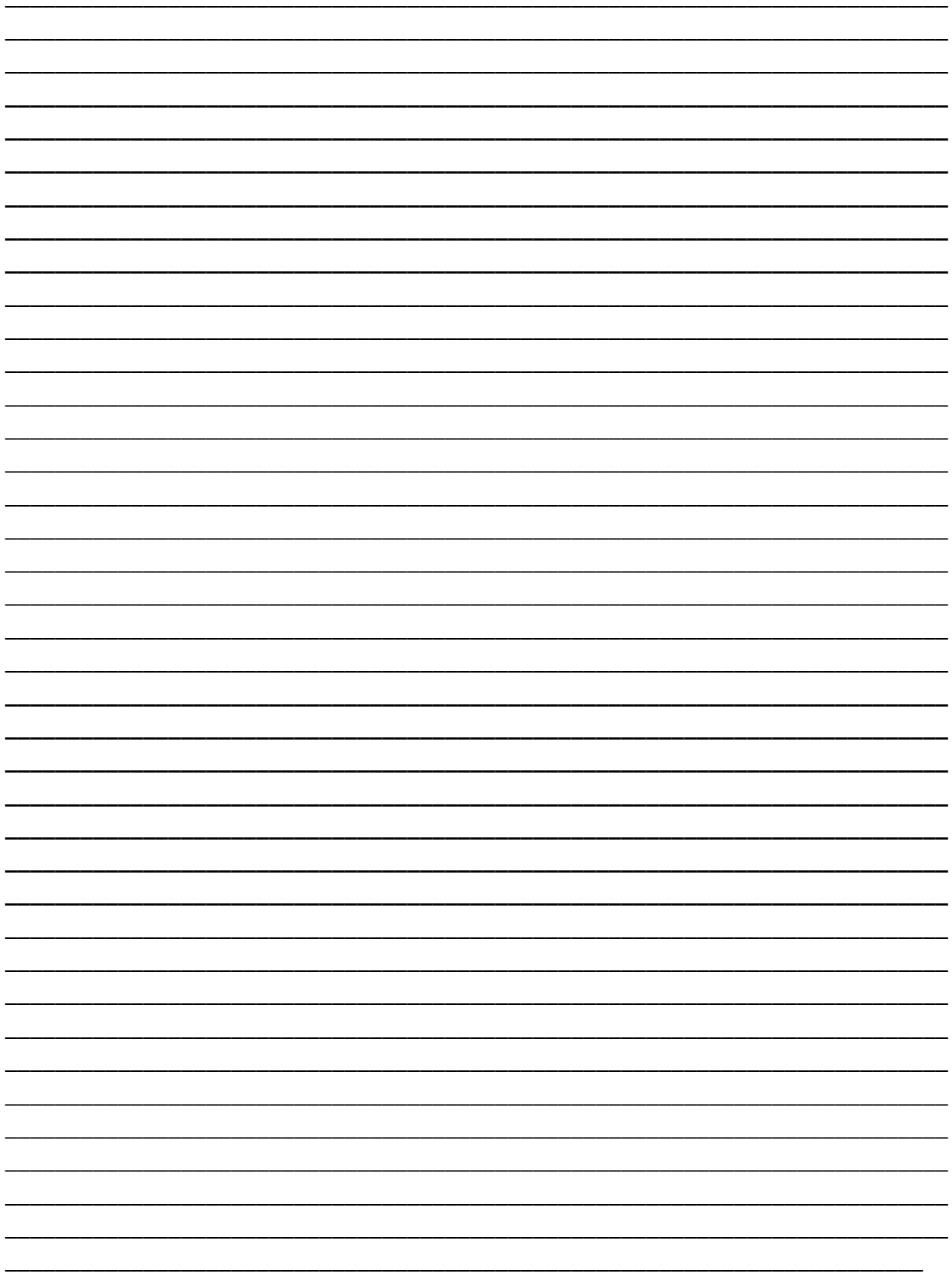
Year: _____

Question

“while developing countries like Fiji is enjoying benefits from free trade , they also need some form of protection”.

With reference to the above statement ,discuss:

- **Three** forms of protectionism.
- **Three** reasons in favour of protectionism.
- **Three** arguments against protectionism if Fiji is ever to compete with developed countries.



NAME: _____

YEAR 11_____

LABASA SANGAM (SKM) COLLEGE
YEAR 11 GEOGRAPHY HOME STUDY PACKAGE
TOPIC 4: VEGETATION
WEEK 10,11 &12

1. What is vegetation? (10 Marks)

_____ (1 mark)

2. Differentiate between **native plants** and **exotic plants** with **examples**

_____ (2 marks)

3. List 4 important functions of vegetation in the ecosystem

_____ (2 marks)

4. Name 3 native trees and 3 exotic trees in Fiji

_____ (2 marks)

5. Name 3 factors that affect vegetation distribution

_____ (2 marks)

6. Name the 5 types of vegetation regions

_____ (1 mark)

...THE END...

NAME: _____

YEAR 11_____

LABASA SANGAM (SKM) COLLEGE
YEAR 11 GEOGRAPHY HOME STUDY PACKAGE

TOPIC 4: VEGETATION

WEEK 10,11 &12

(10%)

1. Discuss how the altitude and latitude affects vegetation distribution

_____ (1 mark)

2. Explain the relationship between **precipitation** and **vegetation**

_____ (1 mark)

3. List 3 characteristics of a tropical rainforest

_____ (2 marks)

4. Where will you find tundra forest? State one of its features

_____ (2mark)

5. Name 3 characteristic of coniferous forest

_____ (2 marks)

6. Definitions

- a. Canopy -

_____ (1 mark)

- b. Epiphytes -

_____ (1 mark)

THE END

LABASA SANGAM [SKM] COLLEGE

YEAR 11 HISTORY ASSESSMENT

WORKSHEET 13

GOVERNMENT AND GOVERNANCE: UNIT 1-6

SECTION A: SHORT ANSWER QUESTIONS

(10 Marks)

Use your knowledge of the topic to answer the questions that follow. Each question is worth two marks each. Write 1-3 sentences.

1. Name the type of government used in Fiji before the arrival of Europeans.? **(2 Marks)**

2. Define the concept interim government.? **(2 Marks)**

3. Describe a feature of a democratic government? **(2 Marks)**

4. Explain a reason for the establishment of the Fijian Administration. **(2 Marks)**

5. Describe the importance of a constitution to a nation.?

(2 Marks)

THE END

LABASA SANGAM (SKM) COLLEGE

HOME ECONOMICS

Name: _____

Year: 11 _____

TOTAL MARKS: 10

WEIGHTING :5 %

NOTE:

- 1. Write all your answers in the space provided.*
- 2. Always use your text book for reference.*
- 3. Return the completed worksheet on the 18th of October 2021(Worksheets 10- 12)*
- 4. For further enquires, do not hesitate to ask me and write your name on every page.*
- 5. There is no need for you to rewrite the summarised notes. File them properly and neatly.*

WORKSHEET 13

1. Name any **two** types of fasteners

(1 mark)

2. Define the term **Fasteners**

(1 mark)

3. State **two** points to consider when selecting a garment with a zip.

(i) _____

(ii) _____

(2 marks)

4. State **two** tips on how to take care of the zip

(i) _____

(ii) _____

(2 marks)

5. A nylon fastener consists of **two** parts. Name those parts.

(i) _____ (ii) _____
(1 mark)

6. Explain any **three** rules for sewing on buttons.

(i) _____

(ii) _____

(iii) _____

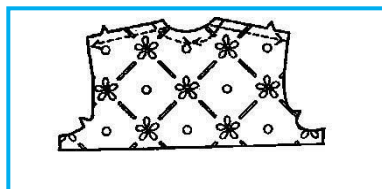
(3 marks)

WORKSHEET 14

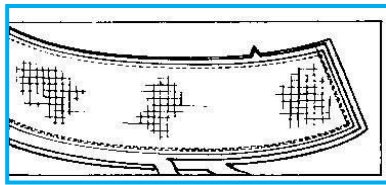
1. Explain the purpose of a shank.

(1 mark)

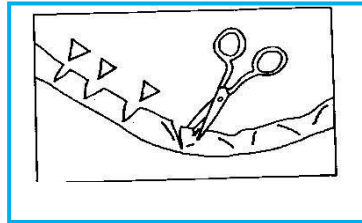
2. Identify and explain the techniques shown below



(ii)



(iii)



(6 marks)

3. Name the **three** types of seams

(i) _____

(ii) _____

(iii) _____

(3 marks)

SHORT TEST
HOME ECONOMICS

Name: _____

Year: 11_____

TOTAL MARKS: 20

WEIGHTING :20 %

NOTE:

- 1. Write all your answers in the space provided.*
- 2. You may use your text book for reference.*
- 3. Return the completed worksheet on the 18TH of October 2021 with Worksheets 13- and 15*
- 4. For further enquires, do not hesitate to ask me and write your name on every page.*
- 5. This open book test is based on Strand 3 – the notes that we have covered so far.*

1. Explain the function of a care label.

(1 mark)

2. Write any **three** methods of straightening the fabric

(i) _____

(ii) _____

(iii) _____

(3 marks)

3. Explain the function of mordant in tie dyeing and give an example of mordant.

(1 mark)

4. State the function of the following parts of a sewing machine.

i) Bobbin winder _____

ii) Feed dog _____

(2 marks)

5. Identify the **two** traditional Fijian artefacts that are still prepared by the I- Taukei.

(i) _____

(ii) _____

(2 marks)

6. State the use of the following types of sewing machines:

(i) Over locker _____

(1 mark)

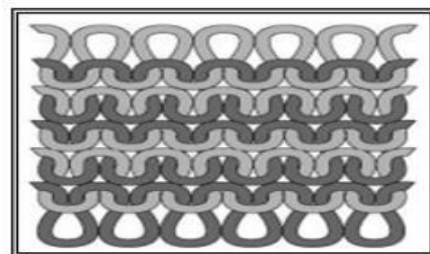
(ii) Treadle sewing machine _____

(1 mark)

6. Explain the function of a **buttonholer**.

(1 mark)

7. Study the picture below and answer the following questions.



Source: Year 11 Home Economics
Textbook

(i) Identify the type of knitting illustrated in the picture.

(1 mark)

(ii) State **two** properties of knitted fabrics that make it a popular wear.

1. _____

2. _____

(2 marks)

8. Sewing machines need regular oiling.

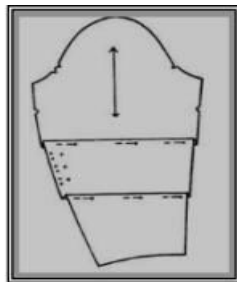
(i) Explain the purpose of oiling sewing machines.

(1 mark)

(ii) Why is it important to run the machine after oiling on scraps of material prior to the actual sewing? _____

(1 mark)

9. Alterations have been made to the sleeve pattern shown below.



Source: Year 11 Home Economics Textbook

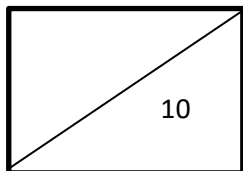
(i) Describe the procedure used in altering the sleeve pattern above.

(2 marks)

(c) French seams are considered to be strong seams.

Name one garment where the French seam is most useful.

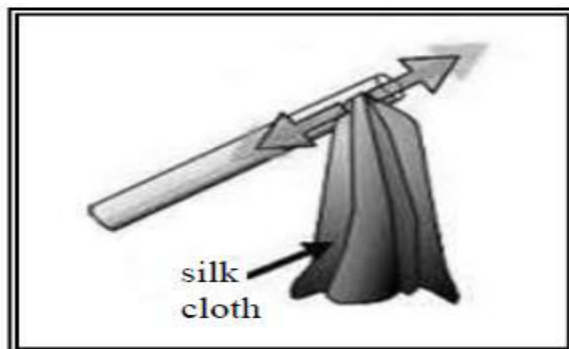
(1 mark)



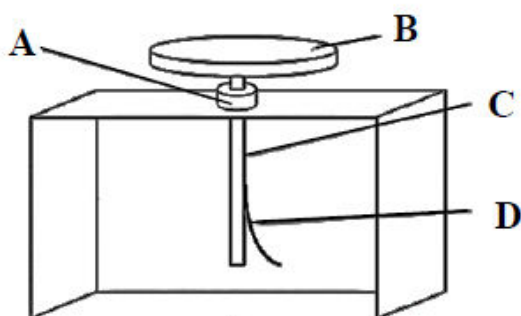
Name: _____
Year: _____

LABASA SANGAM (SKM) COLLEGE
HOME STUDY PACKAGE WEEK 14
YEAR 11 PHYSICS
WORKSHEET 2 (weighting 5%)

1. When a glass rod is rubbed with silk, which of the following statements best describes what happens? **(1mark)**



- A. Protons are removed from the rod.
B. Electrons are removed from the rod.
C. Neutrons are removed from the rod.
D. Atoms are removed from the rod
2. Which of the following materials is an electrical conductor? **(1mark)**
A. Iron B. Glass C. Plastic D. Rubber
3. An electroscope is a device that is used to find if an object is **(1mark)**
A. hot. B. charged. C. magnetic. D. radioactive.
4. The diagram of a gold leaf electroscope is given below. Name the parts of the electroscope labeled **A**, **B**, **C** and **D**.



A - _____ **B** - _____
C - _____ **D** - _____

(2 marks)

5. Two single point charges are placed at a small distance apart as shown below.
Draw electric field lines between the two point charges.



(2 marks)

6. Briefly state the **difference** between **conductors** and **insulators**.

(2 marks)

7. Using an example, state the meaning of **charge is conserved**.

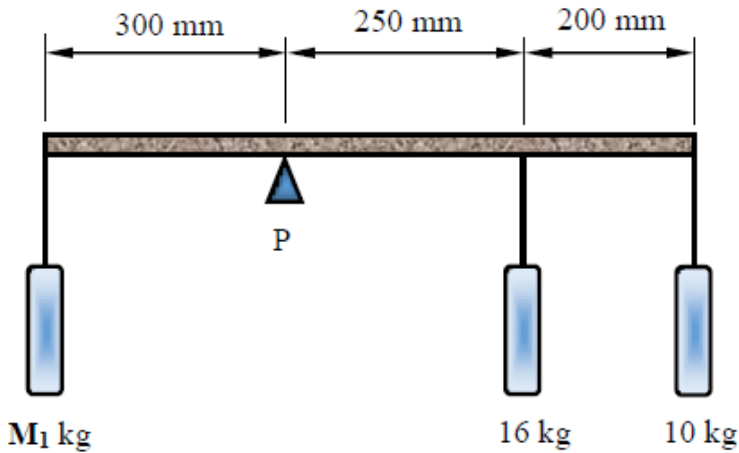
(1 mark)

School: Labasa Sangam(SKM) College
Subject: Technical drawing
Week:13/worksheet:1-3

Year/Level:11C/D/E
Due Date:18th October 2021
Date:27th September -1st October 2021

Question:1

A. **Given:** A sketch of a bar 750 mm long, is pivoted as shown. Three loadings of **M1** kg, 16 kg and 10 kg are attached to the bar as shown.



Sketch NTS

Required:

(i) Determine the load **M1** analytically, which is needed to keep the bar horizontal. **(5 marks)**

Question:1(i)			
1	Correct formula	1	
2	Correct working	1	
3	Correct answer	2	
4	Correct unit	1	

(ii)Define moment of a force.

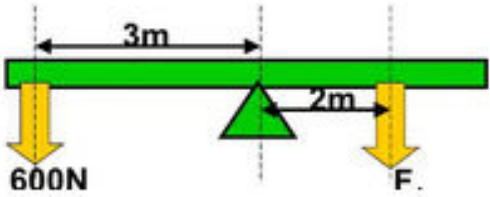
(1 mark)

(iii).State the Principle of Moments.

(1mark)

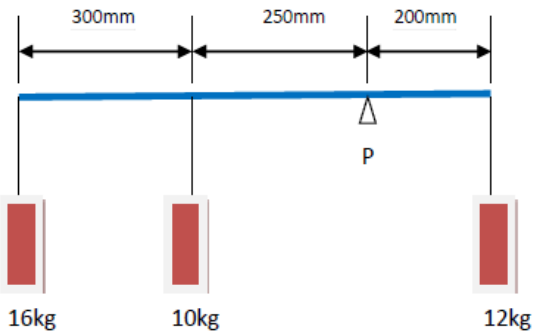
(iv)What force would be needed to balance the beam shown below.

(4 marks)



Question:1(iv)			
1	Correct formula	1	
2	Correct working	1	
3	Correct answer	1	
4	Correct unit	1	

(v). A bar 750mm long, is pivoted as shown. Two loadings of 10 kg, 16 kg and 12 kg are attached to the bar as shown. Determine the moment of the forces about the pivot, P. (use $g = 10\text{m/s}^2$). **(4 marks)**



where

$W = mg$

$F_1 = 16\text{kg} \times 10 = 160\text{N}$

$F_2 = 10\text{kg} \times 10 = 100\text{N}$

$F_3 = 12\text{kg} \times 10 = 120\text{N}$

Question:1(v)			
1	Correct formula	1	
2	Correct working	1	
3	Correct answer	1	
4	Correct unit	1	

Question:2

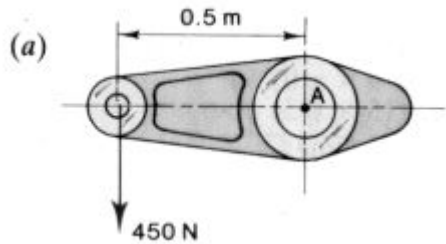
A. Define the moment of a force.

(2 marks)

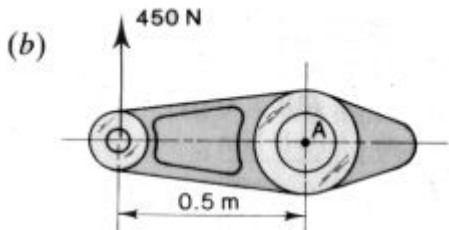
B. State Varignon’s Theorem.

(2 marks)

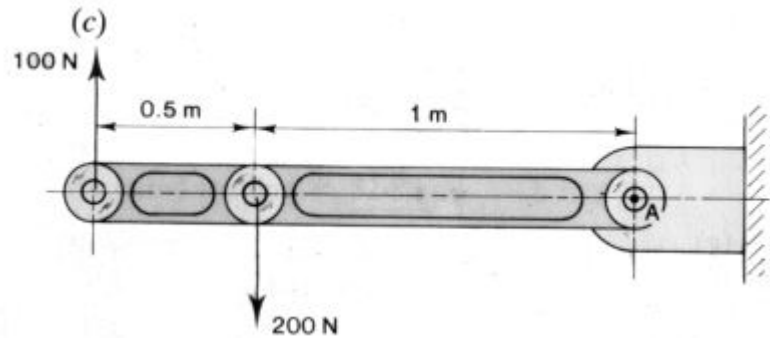
C. Compute the moment of the force about the point A in the following cases:



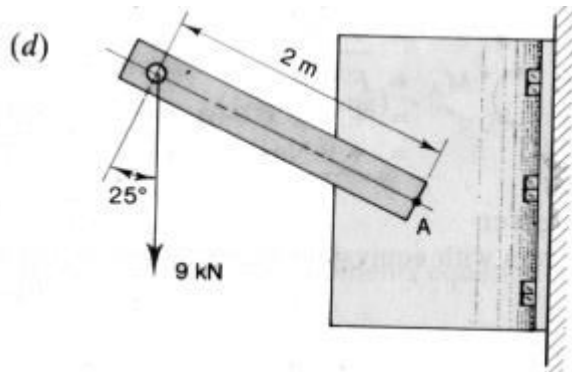
Question:2(a)			
1	Correct formula	1	
2	Correct working	1	
3	Correct answer	1	
4	Correct unit	1	



Question:2(b)			
1	Correct formula	1	
2	Correct working	1	
3	Correct answer	1	
4	Correct unit	1	



Question:2(c)			
1	Correct formula	1	
2	Correct working	1	
3	Correct answer	1	
4	Correct unit	1	



Question:2(d)			
1	Correct formula	1	
2	Correct working	1	
3	Correct answer	1	
4	Correct unit	1	

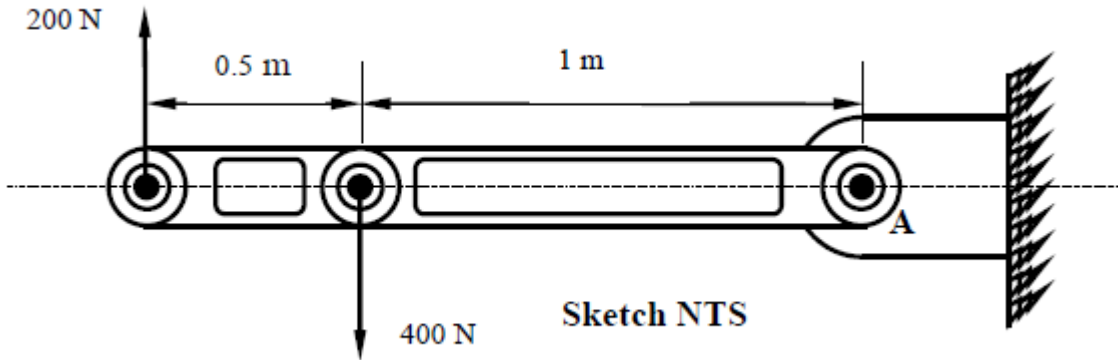
NAME: _____

YEAR: _____

Question:3

(10 marks)

A. **Given:** A 1.5 m long bar is pivoted. Two loadings of 200 N and 400 N are attached to the bar as shown below.



(i) Compute the moment of the force about the point A.

(4 marks)

Question:3 A(i)			
1	Correct formula	1	
2	Correct working	1	
3	Correct answer	1	
4	Correct unit	1	

(i) Define moment of force.

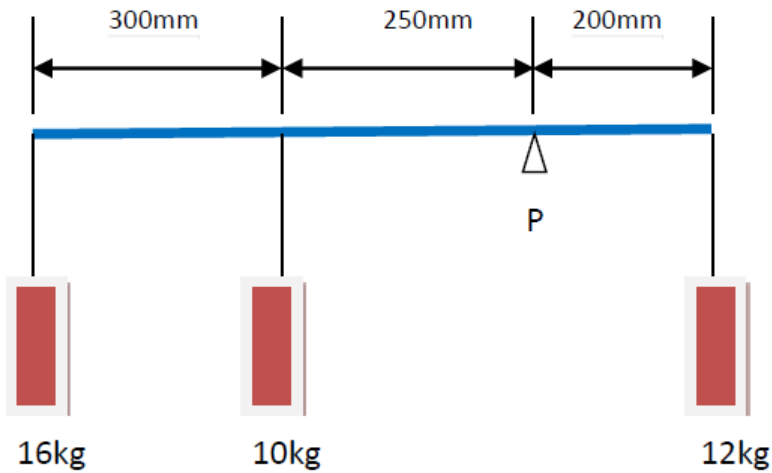
(1 mark)

(ii) State Varignon's Theorem.

(1 mark)

B. **Given:** A bar 750mm long, is pivoted as shown. Two loadings of 10 kg, 16 kg and 12 kg are attached to the bar as shown.

Required: Determine the moment of the forces about the pivot, P. (use $g = 10\text{m/s}^2$). (4 marks)



where $W = mg$

$F_1 = 16\text{kg} \times 10 = 160\text{N}$

$F_2 = 10\text{kg} \times 10 = 100\text{N}$

$F_3 = 12\text{kg} \times 10 = 120\text{N}$

Question:3(B)			
1	Correct formula	1	
2	Correct working	1	
3	Correct answer	1	
4	Correct unit	1	