MATHEMATICS APPLICATIONS

YEAR 11 UNIT 1

TEST 1 CONSUMER ARITHMETIC

TERM 1, 2022



SECTION ONE - CALCULATOR FREE

TIME: MARKS:	20 min 21 mar				
STUDENT'S NA	AME:				
CIRCLE YOUR TEACHER'S NA	ME:	Miss Colquhoun	Dr Du	an	Mr Galbraith

• No calculators are allowed during this section of the test.

Mr Stillitano

- Show all necessary working in order to obtain full marks.
- A formula sheet will be provided.

Mr Riemer

Ques	tion 1	(2 marks)
Calcu	late the following :	
(a)	Increase \$305 by 20%	(1 mark)
b)	If a company has 24 courier drivers out of a total staff of 30. What percentage of the courier drivers?	ne staff are (1 mark)
Ques	tion 2 Calculate the P/E (the price to earnings ratio) of the company 'Eastpac' that h	(4 marks)
(4)	of \$24.00 and for which the total earnings per share over the previous 12 mo \$3.00	_
(b)	An investor is also looking at the company 'Macban' that has a P/E ratio of 6 a total earnings per share over the previous 12 months has been \$1.50. Calculate it's share price.	nd for which the (1 mark)
(c)	Based on the P/E ratio's for Eastpac and Macban, which is the better share to Explain your reasons for your decision.	buy ? (2 marks)

	le phone shop lists all its phone prices with the GST of 10% already included in the slodel phone is displayed with a price of \$880.	hop price. A
(a)	Determine the pre GST price of the mobile phone.	(2 marks)
(b)	If the shop manager decides to discount the shop price of the new model by 20%, as it's not selling fast enough, determine the new discounted sale price.	(2 marks)
(c)	A customer bought the new model phone at the discounted sale price and then later friend for \$528, what was his percentage profit or loss?	sold it to a (2 marks)
Questi	on 4	(4 marks)
A sales	s person in a store earns a monthly retainer of $\$1800$ as well as a 15% commission ales.	on the value
* In Jar	nuary , his total sales were \$9 000	
* In Fe	bruary, his total sales were \$14 000	
(a)	How much commission did he earn in January ?	(1 mark)
(b)	How much did he earn in total, for the two months of January and February ?	(3 marks)

(6 marks)

Question 3

Questi	ion 5	(5 marks)			
An investor bought a house for \$800 000 and sold it one year later for \$840 000.					
(a)	Determine the percentage profit that the investor made.	(2 marks)			
(c)	The real estate agent that sold the house charges a commission of 1.5% of the sale p of \$840 000. Determine the value of the agent's commission.	orice (1 mark)			
(c)	The person that bought the house from the investor is required to pay transfer duty known as Stamp Duty) on the purchase price of the house. If transfer duty is calcula plus 5% of the amount the sale exceeds \$500 000 determine the transfer duty payal	ted as \$19 665			