Mathematical Literacy 4 - Module 3

Name:		Marks Available: 60 Time: 45 minutes
Question 1:		
Define the following terms:		
a. Fixed cost		
b. Pay as you earn		
c. Current account		
d. Johannesburg Securit	ties Exchange	
e. Rental Contract		
		[10]
Question 2:		
State whether each of the fol	llowing are true or false	
a. A government bond i	is a high risk investment.	
b. Options are rights to	buy or sell any asset at a fixed price	e on or before the stated date.
c. A debtor is someone	you owe money to.	
d. Equities earn fixed in	terest.	
e. Cash provides no hec	dge against inflation.	
		[10]
0		
Question 3: State whether each of the fel	llowing are fived or veriable costs	
	nowing are fixed of variable costs.	
a. Rent		
b. Electricity		
c. Loan payments		
d. Raw materials		
e. Telephone calls		
		[5]
Question 4.		
a. Define the following	terms:	
a. Income tax (2	2)	
b. Value added	tax (2)	

c. Tax threshold (2)

Taxable income (R)	Rates of tax
0-122 000	18%
122001 - 195 000	21 960 + 25% of the amount above 80 000
195001 - 270 000	40 210 + 30% of the amount above 130 000
270 001 -380 000	62 710 + 35% of the amount above 180 000
380 001 - 490 000	101 210 + 38% of the amount above 230 000
490 001 +	143 010 + 40% of the amount above 300 000

- b. How much tax will a person pay if he earns R230 000 per year?
- c. If it costs R20 000 for a company to manufacture a good and it resells the good for R30 000, how much VAT must it pay at 14% for the good?
- d. What is the end of the financial tax year?

Question 4:

a. Calculate the simple interest earned if the principle amount = R30 000; time = 5 yearas and interest rate = 12% (3)

b. Calculate the Celsius temperature if the Farenheit temperature is 100 (4)

c. How much water is there in a water tanker 10m long with a circumference of 2m.

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[15]

d. What is it's estimated surface area? (3)

e. How much fencing would be needed to fence a farm 3km long and 3850m wide?

Question 5: Latest car sales may signal the end of the downturn.

The total new-vehicle market rebounded slightly in September, with sales increasing by 6,1%, compared with figures for August, to reach 35 931 units.

Sales of new passenger cars in September showed an increase of 6,2% over sales recorded in August, totalling 23 813 units.

September sales in the light commercial vehicle segment increased by 5,5% from August, but the 10 525 units fell 21,9% short of September 2008 sales.

The 551 medium commercial vehicles sold were 2% up on last month's results, but 35,8% in the red compared with figures for September last year.

Sales in the heavy commercial vehicle segment reached 1 042 units, an increase of 10,4% on August's results, but 48,6% down on the number achieved in September 2008.

a. Represent the information in a table. (3)

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b. What do the percentages tell you? (6)

c. Represent the information in a bar graph. (6)

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