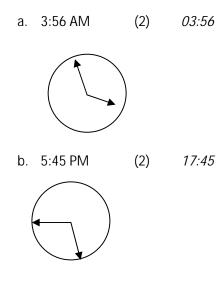
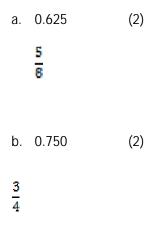
Name: Solutions	Date:	
1. Arrange the following numbers	from largest to smallest:	
a. 0.454; 0.73; 0.117; 0.26	5; 0.138 (2)	
0.73; 0.454; 0.265; 0.13	8; 0.117	
b. <u>5</u> ; <u>3</u> ; <u>4</u> ; <u>5</u> ; <u>3</u> <u>16'</u> <u>7'</u> <u>6'</u> <u>8'</u> <u>6</u>	(2)	
4. <u>5</u> . <u>3</u> . <u>5</u> 5 ['] 8 ['] 6 ['] 7 ['] 16		
		[4]
2. Convert the following to percen	tages:	
a. 18/32	(2)	
56.25%		
b. 0.864	(2)	
86.4%		
		[4]
3. Number lines:		
a. Draw a number line bet	ween 2 and 3 showing tenths between the	e two numbers. (2)
3 3.1 3.2 3.3 3.	4 3.5 3.6 3.7 3.8 3.9 4	
b. Draw a number line bet	ween 5.4 and 5.5 showing 100s between t	he numbers. (2)

4. Put the following in 24 hour notation and sketch the analogue face:



5. Convert the following to fractions:



[4]

[20]

[4]

[4]

viathe	ematical Literacy 3 Class Test 2	
Name:	Solutions Date:	
1.	Calculate the share of R100 that 3 people will get if they divide it into the ratio 3:5:2	
3+	+ 5 + 2 = 10 .: 3 x R10 = R30; 5 x R10 = R50; 2 x R10 = R20. Total = R100	
2.	If a cyclist can cycle 120km in 3 hours at what rate is he cycling? How long will it take him cycle 200km?	[3] n to
	40 km /h; Time taken to travel 200km = 5 hours	
		[4]
3.	Convert the following:	
	a. 24 inches into cm (2) 61.056cm	
	<i>b.</i> 15 ounces into grams (2) <i>425.25g</i>	
	<i>c.</i> 9km into miles (2) <i>5.625 miles</i>	
	1 inch = 2.544cm; 1 ounce = 28.35g; 1 mile = 1.60km	[6]
4.	If the scale of a map is 1:10 000, what distance does 1cm on the map represent? Make s	ure your
	answer is in an appropriate unit.	
	1cm : 10 000cm; 1cm = 100km	
		[4]
5.	If John and Shireen divide R60 between them such that Shireen gets 🔓 of the total amou	unt, how
	much does John get?	
	Shireen gets R36 : John gets R24	
		[3]
6.	How many seconds are there in one hour?	
	3600 seconds	
		[2]
		[20]

Name:	Solutions Date:	
1.	 Describe each of the following accounts: a. Current Account (2) Account that is used every day, can be used to write cheques b. Savings Account (2) For savings purposes; earns higher interest 	[4]
2.	If a bank charges R2.50 + R1.00 per R100 withdrawn, what will be the charge if you withdraw R600?	W
R2	$50 + (R1.00 \times 6) = R8.50$	
3.	If you have R1250 invested in a bank account earning 7% per year, how much will you have the end of the year?	[3] at
R1	337.50	
4.	Name three categories of source documents. Sales documents; Purchase documents; Banking documents	[4]
5.	What does it mean when you "cross a cheque?"	[4]
6.	You prevent it being cashed by someone other than the person who it is intended for. When will you get a receipt?	[2]
7.	When you have paid for a good or service If VAT is charged at 14%, calculate the VAT on a product that costs R1 500 (excluding VAT). R1500 x R1.14 = R1 710	[2]
	What is typically more expensive – to withdraw money from an ATM or from a teller?	[2]

lame:	Date:
1. Give three tips on saving.	
	<i>R10 out of every R100; Compare the interest rates on different an business; Don't get a credit card; Don't buy on hire</i> uses.
, ,	[6]
-	ged on R350 at 10% per annum over 5 years.
10% of R350 = R35 .: Interest ear	
3. Explain the purpose of income sta	[3] tements and balance sheets
	noney you or your company has earned over the past year, nancial position at the end of the year. Both are indicators as to
4. As with the example in (2) above,	[6]
• • • • •	
R350 x (1.1) ⁵ –R350 =R213.6725	
	[3]
5. What is profit? (2)	

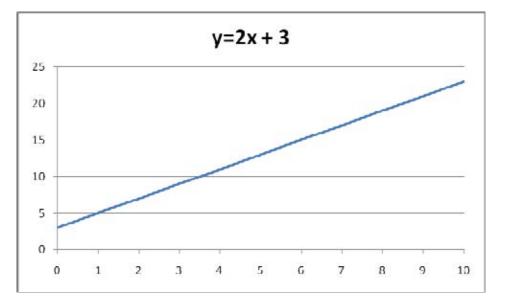
Mathematical	Literac	y 3			Class	Test 5				
Name: Solution	ns							Date:		
1. Find th	ne form	ula of the	e followi	ng:						
а.										
	X		1		2			3	4	
	Y		5		7			9	11	
	Formu	ula: <i>y = 2</i>	x + 3							
b.										
	Х		4		8			12	16	
	Y		1		2			3	4	
	Formu	ula: y = ¼	X							
										[6]
2. Write	the nun	nber that	you thi	nk shoul	d logica	lly follo	w on th	e numbers in	the following	sets:
		1.1					(2)		-	
	625			5			()			
D.	020	120	5	5	1	(2)				
										[4]
3. State v	whether	the follo	wing ar	e direct	or inve	rse rela	tionship	DS:		
a.						Inve	rse			

b. Speed travelled and time taken to get to destination (2)

Inverse

[4]

4. Sketch the graph of y= 2x + 3



[6]

[20]

Name:	Date:	
1.	Represent the following as equations: a. Multiply the number by 5 and add 3 (2) Y = 5x + 3 b. Input value $\rightarrow x 7 \rightarrow -4 \rightarrow $ Output value (2)	
	Y = 7x - 4	[4]
2	Name three ways of collecting data	[7]
2.	Looking at the organisation's normal operations; Surveys; Databases;	
	,,,,,,,,,,,,,,	[3]
3.	Why do we use samples? Give one example of a sample.	
	It is impossible to interview / survey everyone, therefore we use a sample to approximate.	[3]
4.	Name three forms of graph and what they are used for.	
	Bar Graph – Used for comparing data	
	Pie chart – Also used for comparing data, that totals a whole	
	Line graph – For trends	
_		[6]
5.	What is the difference between discrete data and continuous data? Discrete data has definite values e.g. Rands and cents; continuous data can take any value eg fluids	<i>].</i>
		[4]
		[20]

Mathematical Literacy 3

Class Test 7

Name:	Solutions

Date:

1. Given the following data:

60	60	53	65	86	67	71
35	64	20	93	56	43	71

a. Order the data from smallest to largest (2)

20; 35; 43; 53; 56; 56; 60; 60; 64; 65; 67; 71; 71; 86; 93

b. Calculate the mean of the data (4)

 $\frac{216}{10} = (20 + 35 + 43 + 53 + 56 + 56 + 60 + 60 + 64 + 65 + 67 + 71 + 71 + 86 + 93) \div 14$

= 60.28

c. Calculate the median of the data (4)

Median = (60 + 64) ÷ 2 = 62

d. Calculate the mode of the data (2)

Bimodal: 60; 71

e. Calculate the range and interquartile range (8)

Range = 93 - 20 = 73

Interquartile range: Position 3 and Position 11 = 71 - 43 = 28

[20]

Mathematical Literacy 3

Class Test 8

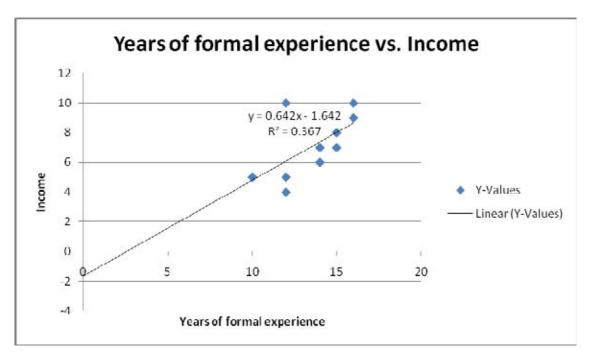
Name: Solutions

Date:			
-			

1. Given the following data:

Years of formal income	12	10	15	12	16	15	12	16	14	14
Income (R000s)	4	5	8	10	9	7	5	10	7	6

a. Compile a scattergram for the data (6)



- b. Add a line that best fits the graph (2)
- c. Comment on the scattergram. Do you think that it is a close fit? Do you notice a trend?If so, what? (4)

There is a trend, however, it is weak. Positive relationship.

- 2. Give four features of a bar graph
 - The width of the bars must be exactly the same
 - The distance between the bars must be exactly the same
 - The horizontal axis isn't continuous
 - The axes must be labelled
 - The graph must be titled
 - The bar chart can be compound

- [4]
- 3. Given the data work out the angle that each would occupy on a pie chart. Do not draw it.

Popularity of non-fiction vs. fiction books.

Fiction: 57 Non-fiction: 43 $57 \div 100 \times 360 = 205.2^{\circ}$ $43 \div 100 \times 360 = 154.8^{\circ}$

[4]

[20]