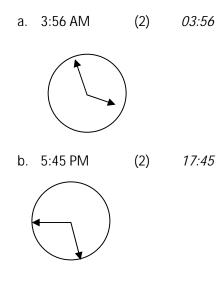
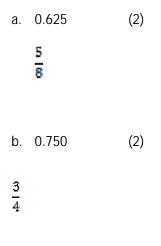
| Name: Solutions | Date: | |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|
| 1. Arrange the following numbers | from largest to smallest: | |
| a. 0.454; 0.73; 0.117; 0.26 | 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) | |

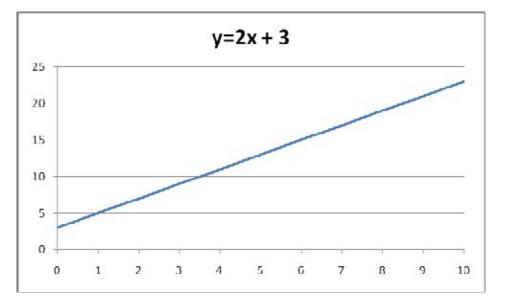
| Mathematical | Literac | y 3 | | | Class | Test 5 | | | | |
|----------------|---------|-------------------|-----------|----------|----------|-----------|----------|--------------|---------------|-------|
| Name: Solution | ns | | | | | | | Date: | | |
| 1. Find th | ne form | ula of the | e followi | 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

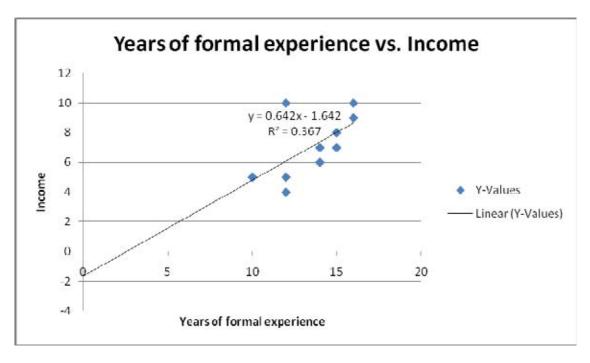
Name: Solutions

| 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]