

Basic Education

KwaZulu-Natal Department of Basic Education REPUBLIC OF SOUTH AFRICA

MATHEMATICAL LITERACY P1

COMMON TEST

JUNE 2016

NATIONAL SENIOR CERTIFICATE

GRADE 10

MARKS: 50

TIME: 1 hour

This question paper consists of 5 pages and 2 Annexures.

INSTRUCTIONS AND INFORMATION

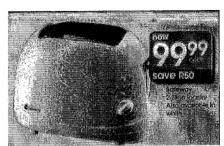
- 1. This question paper consists of **THREE** questions. Answer ALL the questions.
- 2. Use ANNEXURE A to answer QUESTION 1.2 and Annexure B to answer question 2.2.
- 3. Number the answers correctly according to the numbering sytem used in this question paper.
- 4. Start EACH question on a NEW page.
- 5. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
- 6. Show ALL the calculations clearly.
- 7. Round ALL the final answers off to TWO decimal places, unless stated otherwise.
- 8. Indicate units of measurement, where applicable.
- 9. Write neatly and legibly.

(2)

QUESTION 1

1.1 Thando decided to buy a new toaster.

He found the advertisement alongside in a newspaper.



Daily New Clicks advertisement

Study the advertisement and answer the questions that follow:

- 1.1.1 Calculate the original price of the toaster.
- 1.1.2 Determine the percentage discount offered on this toaster, using the formula:

Percentage discount =
$$\frac{\text{discount amount}}{\text{original price}} \times 100\%$$
 (3)

Thando travelled to visit his grandmother. The graph on ANNEXURE A shows his distance travelled against time.

Study the graph on ANNEXURE A and answer the questions that follow:

- 1.2.1 Write down the time that Thando left home. (2)
- 1.2.2 State how far away from home was Thando after 30 min. (2)
- 1.2.3 Write down Thando's average speed in kilometres per hour. You may use the graph or the formula:

Average speed =
$$\frac{\text{distance travelledinkm}}{\text{time in hours}}$$
 (3)

1.2.4 How long (in hours) did Thando take to drive to his grandmother's home? (2) [14]

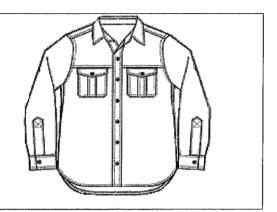
QUESTION 2

The adu	lts were served tea while the children were served juice.		
Mrs Zin	nba bought concentrated juice to dilute for the children.		
2.1.1	Show that 300 children attended the function.		
2.1.2	Calculate the number of adults at the function.		
2.1.3	The dilution factor on the concentrated juice indicate 1:5 (that is one part juice to five parts water)		
	(a) Calculate how many litres of diluted juice can be made from 1,5 \(\ell \) of concentrated juice.		
	(b) Determine how many servings of 200 ml juice can be serve from 5 l of diluted juice.		
The invo	nba received the invoice for goods she ordered for the catering of the function oice is provided on ANNEXURE B. ne invoice and answer the questions that follow.		
The invo	oice is provided on ANNEXURE B. ne invoice and answer the questions that follow.		
The invo	oice is provided on ANNEXURE B.		
The involved the control of the cont	oice is provided on ANNEXURE B. ne invoice and answer the questions that follow. State the date on which Mrs Zimba placed her order.		
The involution of the control of the	oice is provided on ANNEXURE B. ne invoice and answer the questions that follow. State the date on which Mrs Zimba placed her order. Determine the missing values A, B and C on the invoice. Calculate how many days does Mrs Zimba have to settle the bill. The decorated the cakes she made for the function with red, green and yellow		
The investment of the second o	State the date on which Mrs Zimba placed her order. Determine the missing values A, B and C on the invoice. Calculate how many days does Mrs Zimba have to settle the bill. The decorated the cakes she made for the function with red, green and yellow of smarties contained 10 red, 12 yellow and 18 green smarties only. Mr blaced them in a bowl. Mrs Zimba placed her hand in the nowl and pulled out a set of smarties.		
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QUESTION 3

3.1 Sketched alongside is a scale drawing of a shirt given as a gift.

The scale used to sketch the shirt is 1:20



- 3.1.1 Explain what the scale used to sketch the shirt means.
- 3.1.2 The length of the back of shirt on the drawing is 2,5 cm.

Calculate the actual length of the back of the shirt.

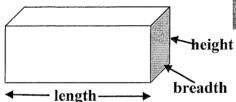
(2)

(2)

3.1.3 The shirt was packed in a box with dimensions:

- length = 30 cm
- breath = 20 cm
- height = 8 cm





Calculate the surface area of the box using the formula:

Surface area of a rectangular prism = $2(length \times breadth + length \times height + breadth \times height)$ (5)

3.2 The bow used as decoration on the gift box cost R24,99 and there are 8 bows in the box.



Calculate the unit price of the bow.

(2) [11]

TOTAL: [50]

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Please turn over

ANNEXURE B

QUESTION 2.2

Metro Wholesalers

MVOICE

[PO BOX 1234 Durban 4000] [Phone: 031 567 6767] [Fax:031 567 6768] [metrowholesalers@gmail.com]

Billed To:

Mrs Zimba

Zimba Caterers PO BOX 64

Umlazi

Durban

Invoice Num: 1002345

Invoice Date: 24 March 2016

Payment due Date: 31 March 2016

Description	Unit Price	Quantity	Total
10 kg flour	R89,99	1	R89,99
1 kg margarine	R42,99	2	Α
2,5 dozen eggs	R39,99	1	R39,99
6 pack Long life milk	R59,99	1	R59,99
100g smarties	R12,99	В	R38,97
		·	
		-	
		Total Due:	С

M Pather **Clerk**

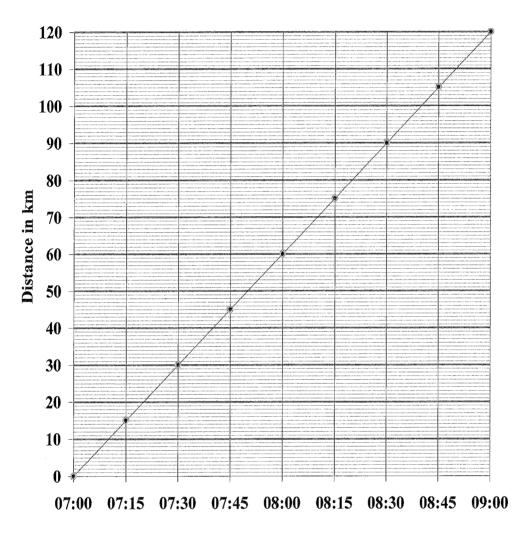
24 March 2016 Date

Thank You for Your Business!

ANNEXURE A

QUESTION 1.2

DISTANCE TRAVELLED AGAINST TIME



Time