CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

MATHEMATICS **212/02**

Paper 2 **For examination from 2025 - 2027**

SPECIMEN **2 hours**

Candidates answer on the Question Paper.

Additional materials required: Geometrical Instruments
                              Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your name, centre number and candidate number in the spaces provided.

Write in dark blue or black pen in the spaces provided on the Question Paper.

You may use a soft pencil for any diagrams and graphs.

Do **not** use staples, tables, paper clips, highlighters, glue or correction fluid.
Answer **all** questions.

Electronic calculators should **not** be used.

All working must be shown. It should be done on the same sheet as the rest of the answer.

Marks will be given for working which shows that you know how to solve the problem even if you get the wrong answer.

The total number of marks for this paper is 100.

For Examiner's Use	
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This document consists of **17** printed pages and **3** blank pages.

2

For Examiner's Use

1 (a) Write each of the following numbers as indicated:

(i) Eight million, ninety-five thousand in numeral form.

Answer (a)(i) …………......…………………… [1]

(ii) 0.317 as a common fraction

Answer (a)(ii) …………………….....………… [1]

(iii) 867 035 in expanded form

Answer (a)(iii) ……………………...………..……. [1]

(b) State the place value of 3 in the number 125.231

Answer (b) …………...................…………………… [1]

(c) Calculate the number that is 100 000 less than 5 863 711

Answer (c) …………….................………………… [2]

2 Work out the following:

(a) $\frac{4}{5}$ of 100 litres

Answer (*a*) …………….....................………….litres [2]

(b) 72 660 ÷ 28

Answer (*b*) …………....................………………… [2]

(c) 5 687 × 136

Answer (*c*)…………………………....................… [3]

4

3 The following is Andile's study timetable.

Study the timetable and answer the questions that follow.

Subject	Time
Science	15:05 – 16:30
Mathematics	16:30 – 17: 15
Health break	17:15 – 17: 40
Social Studies	17:40 – 18:45
Siswati	18:45 – 19:30

(a) How long does Andile study Mathematics?

Answer (*a*) ……………….................………………… [2]

(b) At what time does Andile stop studying Social Studies.

Write this time using 12- hour time.

Answer (*b*) ……………….................…………… [2]

4 **(a)** The following is a sequence of equivalent fractions

$$\frac{4}{10} , \frac{6}{15} , \frac{8}{20} , ...$$

In the sequence, write the fraction with denominator = 30.

Answer (*a*) …………...............……………………… [1]

(b) A group of 6 friends shares equally $\frac{9}{10}$ kg of chocolate.

Calculate the mass of chocolate each friend gets.

Answer (*b*) …………...............……………………… [3]

(c) Phayo covers a distance of 0.63 metres in one step.

Calculate the distance she covers with 72 steps.

Answer (*c*) …………...............……....………… metres [3]

5 **Answer this question on the space provided below.**

(a) Draw line segment $PQ = 9$ cm.

Point P has been drawn for you. [2]

(b) Using a protractor and a ruler, construct;

(i) angle $QPS = 60°$ such that $PS = 7$ cm [3]

(ii) angle $PQR = 90°$ such that $QR = 6$ cm [3]

(c) Join S and R to form quadrilateral $PQRS$. [1]

(d) Measure the size of angle PSR.

Answer (d)…….....................…………………………… [2]

(e) What type of quadrilateral is $PQRS$?

Answer (e)..…………………….....................……… [1]

P.

6 Figure 6.1 shows a quadrilateral with unknown angles marked *x* and *y*.

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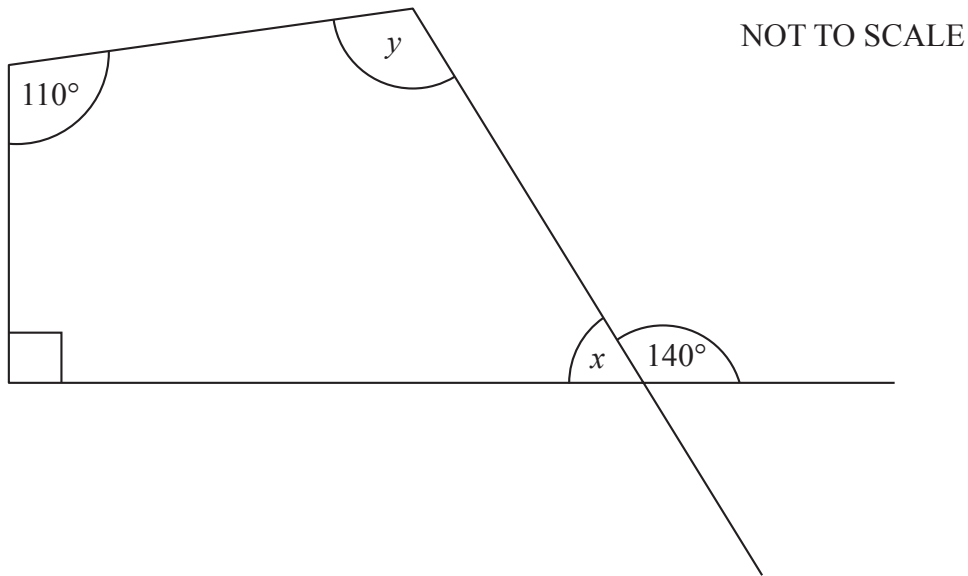
Figure 6.1

Calculate the size of

(a) *x*

Answer (a) ………………….................………° [2]

(b) *y*

Answer (b)……………………...........…………° [3]

7 **(a)** Senzo has 270 chickens.

Jason has 40% of the number of chickens Senzo has.

Work out;

(i) the number of chickens Jason has.

Answer (*a*)(i) …………………….....… chickens [2]

(ii) the total number of chickens Senzo and Jason have altogether.

Answer (*a*)(ii) ………………...……… chickens [2]

(b) Work out   48 397 + 6 985

Answer (*b*) …………..……………………… [2]

8 Mrs Dube recorded the money in Emalangeni(E) she got from her investments in each month.

Month	January	February	March	April
Money(E)	95	110	125	…

If she continued to get her money in this pattern

(a) Calculate the money she got in April.

Answer (*a*) ……………………………… [2]

(b) In which month did she get E170?

Answer (*b*) ……………………………… [2]

[Turn over

9 The following data was collected in a survey by asking learners their favourite fruit.

Mango	Apple	Apple	Banana	Mango
Banana	Mango	Banana	Mango	Banana
Apple	Mango	Apple	Mango	Banana

(a) Complete the table below with tally marks to show the data.

Fruit	Tally Marks	Total
Apple		
Banana		
Mango		

[3]

(b) Which fruit is liked by less than 4 learners.

Answer (b) ………………………… [1]

10 The following distribution shows the marks Thandiwe got in 5 Mathematics tests
in Term 2.

75, 60, 80, 75, 90

Find the;

(a) mode

Answer (*a*) ……………………………… [1]

(b) range,

Answer (*b*) ……………………………… [2]

(c) mean of the marks.

Answer (*c*) ……………………………… [3]

11 (a) The difference between two number is 25 407.

The bigger number is 88 639.

Calculate the other number.

Answer (*a*) …………………..…………… [2]

(b) On a certain day, Lemihle used 500 Mbs of mobile data on internet.

She used   of the mobile data on Facebook.

(i) Work out the amount of mobile data she used on Facebook.

Answer (*b*)(i) …………………………… [2]

(ii) She used the remaining mobile data on WhatsApp.

Calculate the amount of mobile data she used.

Answer (*b*)(ii) …………………..……… [2]

12 (a) (i) Draw a circle with a diameter = 6 cm. [2]

(ii) How many lines of symmetry are in a circle?

Answer (*a*)(ii) ………...………………… [1]

(b) Figure 12.1 shows a diagram made of straight lines *MP*, *QR*, *NT*, and *SO*.

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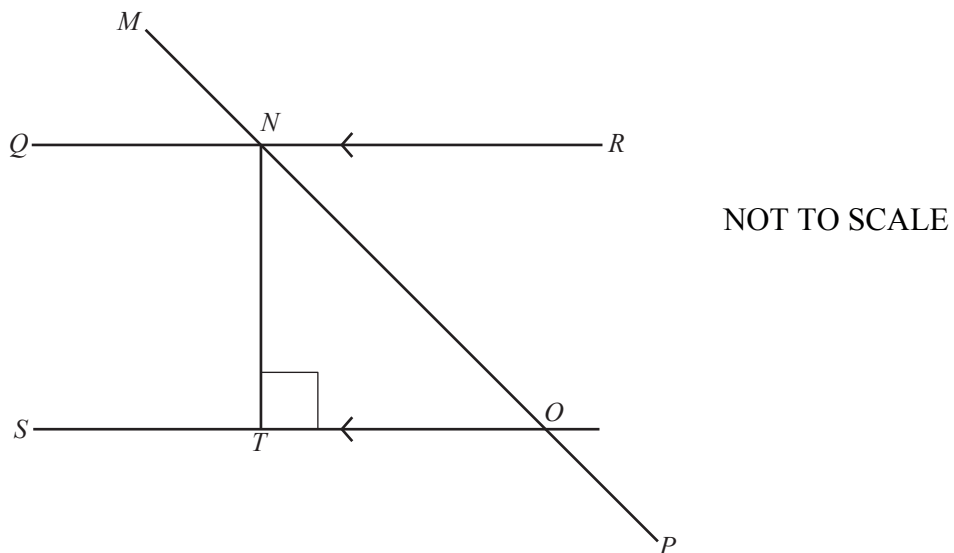
Fig.12.1

From the figure, name;

(i) two parallel lines   *Answer* (*b*)(i)………………………. [1]

(ii) the line perpendicular to *NT*   *Answer* (*b*)(ii) ……...……………. [1]

(iii) Acute angle   *Answer* (*b*)(iii) ……...…………..... [1]

(iv) the type of triangle *NTO*   *Answer* (*b*)(iv)………..…………. [1]

13 The table shows prices of certain items in a shop.

Item	Price(E)
A loaf of brown bread	13.75
2 litres cola drink	32.00
500 grams block of Margarine	26.50
1kg brown sugar	19.00

(a) Ndoda bought a total of 3 kg margarine at this shop.

Calculate the number of 500 grams blocks he bought.

Answer (*a*) ……………………………… [3]

(b) Mr Ndlela bought 9 loaves of brown bread and 1kg of brown sugar.

Work out the amount he paid for all the items.

Answer (*b*) E…………………………… [3]

14 Figure 14.1 shows a compound shape.

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5 m

4 m

3 m

7 m

3 m

8 m
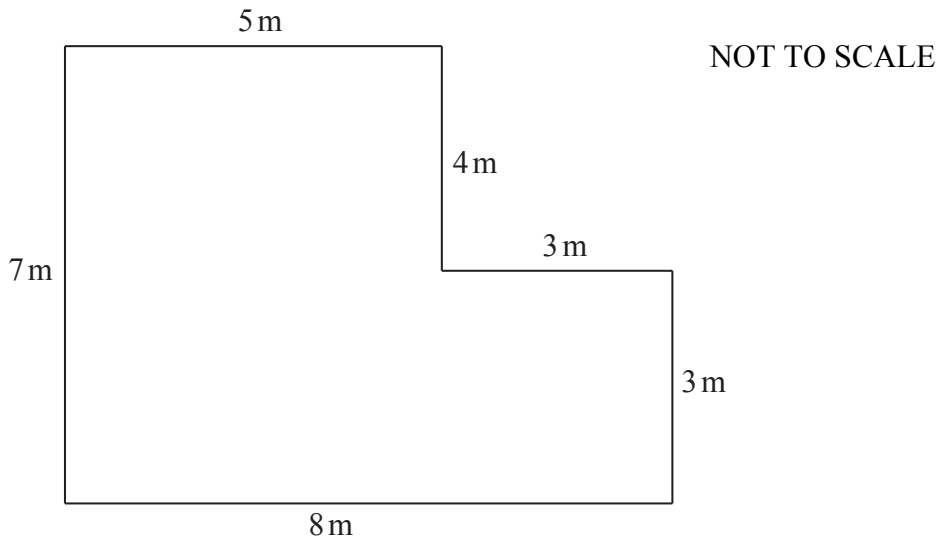
Fig 14.1

Work out the area of the shape

Answer……………………………….m² [3]

15 (a) Complete the following magic square.

10		
	11	
4		12

[3]

(b) A certain number of Gender Based Violence(GBV) victims reported cases at the local police station.
There were 19 males victims who reported cases.
There were 13 females victims more than the number of females.

Calculate the total number Gender Based Violence victims who reported cases at the local police station.

Answer (*b*) ……………………………… [3]

16 Figure16.1 shows a coordinate diagram with triangle *ABC* and triangle $A_1B_1C_1$
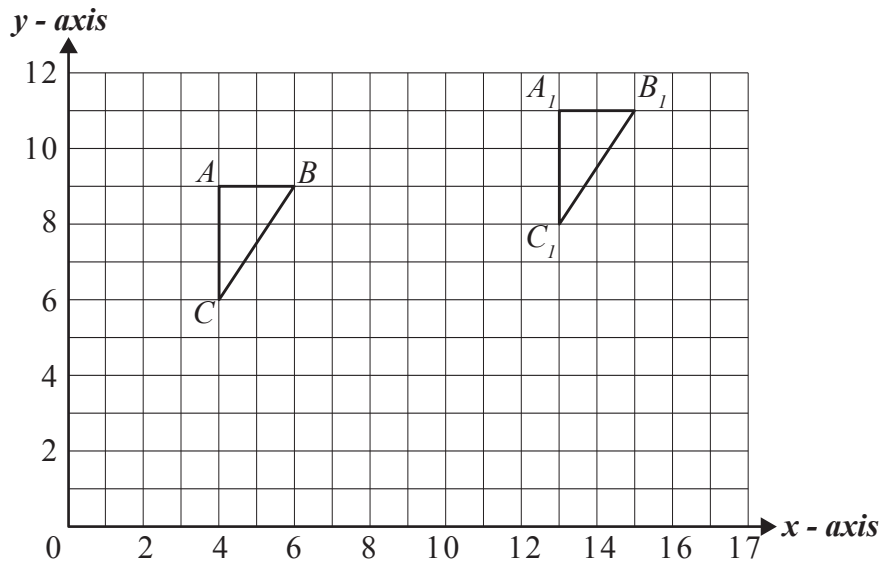
Fig 16.1

(a) Describe the transformation that maps triangle ABC onto triangle $A_1B_1C_1$.

Answer (*a*)…………......................………………….....…………………………..

…………………………….....................…………………………………………….. [3]

(b) (i) Plot the points *M* (1,2) and *N* (10,11). [1]

(ii) Join the points to form the straight line *MN*. [1]

(c) Reflect Triangle *ABC* using the line *MN* as a mirror line.

Label the image $A_2B_2C_2$. [3]

(d) Rotate triangle $A_1B_1C_1$ 90° clockwise about point C_1.

Label the image $A_3B_3C_3$. [3]

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