

**Mathematics  
PM  
30/06/2025  
09:00 AM - 11:00 AM**



**Pupil's complete index**

Pupil

Year

**Pupil's names**

**Surname:**.....

**Other names:**.....

NB: PUPIL'S INDEX NUMBER AND NAMES  
**MUST** BE WRITTEN AS THEY APPEAR ON THE  
REGISTRATION FORM

**PRIMARY LEAVING NATIONAL EXAMINATIONS, 2024 - 2025**

## **MATHEMATICS**

**Duration: Two hours**

**Marks:** /100

### **Instructions to candidates:**

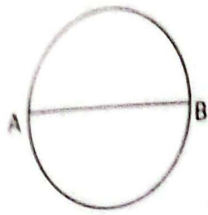
- 1) Do not open this question paper until you are told to do so.
- 2) Attempt **ALL** questions in this paper.
- 3) Read each question carefully before answering it.
- 4) Answer the questions in the space provided in this question paper.
- 5) Show your working clearly where required. Marks will be given for showing steps.
- 6) All rough work must be done in the space under each question.
- 7) You must use a **blue** or **black** pen.
- 8) You are allowed to use a ruler, and a protractor.
- 9) **You are NOT allowed to use a calculator.**



Answer all questions. (100 marks)

Do rough work below each question in this column.	Write your answers in this column.
<p>1) Which of the following statements is true or false? (5 marks)</p> <p>a) <math>(-3) \times (-2) = -6</math></p> <p>b) <math>(-2) + (-3) = -5</math></p> <p>c) <math>(-2) \times (-3) = +6</math></p> <p>d) <math>(-3) - (-2) = -5</math></p> <p>e) <math>(-3) : (-3) = +1</math></p>	
<p>2) Complete the following sentences using the meaning of the given words: <b>Time, Principal, Rate.</b></p> <p>a) The money borrowed, saved or lent is ..... (1 mark)</p> <p>b) The percentage used to calculate interest is ..... (1 mark)</p> <p>c) ..... is the period that the borrowed money is invested. (1 mark)</p>	
<p>3) Complete the sentences below using <b>radius, diameter</b> or <b>circumference</b> (2 marks)</p> <p>a) The distance around the circle is .....</p>	

b) The length of AB in this circle is known as.....



4) A meeting started at 10:40 a.m. and ended at 1:30 p.m.  
The duration of this meeting is ..... h..... min. **(2 marks)**

5) a) What are the place values of 2 and 7 in the number 3,297,354?  
**(2 marks)**

b) What are the values of 2 and 7 in the number 675,982,840?  
**(2 marks)**

6) Compare the numbers using  $<$ ,  $>$  or  $=$   
**(3 marks)**

a) 537,926  573,926

b)  $10^6$   1,000,000

c) 210,034  201,034

7) By using the following digits:  
5; 2; 9; 4; 0;  
Write the biggest and the smallest whole number formed by all five digits.  
**(2 marks)**



8) Choose the right definition of the words "mode" and "range" in statistics. **(2 marks)**

- a) Mode is the middle value in a data set when the values are arranged from the smallest to the highest.
- b) Mode is the most repeated number in a given data.
- c) Range is the difference between highest number and smallest number in a given data.
- d) Range is the way data are arranged in a data set.

9) Work out and choose the correct answer:

**(2 marks)**

$$292,142 + 505,735 + 402,123 =$$

- A: 1,190,000
- B: 1,199,000
- C: 1,199,900
- D: 1,200,000

10) Fill in the missing term: **(2 marks)**

$$337,478 - \dots\dots\dots = 302,370$$



11) Choose the correct answer to:

(2 marks)

$$25 + 32 =$$

A: 39

B: 42

C: 57

D: 64

12) Use  $<$ ,  $>$  or  $=$  to fill in the boxes.

(3 marks)

a) 4.44  0.40

b) 3.56  3.65

c) 3.65  3.650

13) Write the correct answer to:  $\frac{5.5 \times 0.2}{0.05} =$

(2 marks)

A: 0.22

B: 2.2

C: 22

D: 220

14) a) Round off 654,497 to the nearest hundreds.

(1 mark)

Choose the best answer:

A: 655,000

B: 654,498

C: 654,500

D: 654,400

b) Round off 56.7361 to the nearest hundredths. **(1 mark)**

Choose the best answer:

A: 56.7300

B: 56.74

C: 56.736

D: 56.75

15) A worker spent  $\frac{1}{4}$  of his salary on food;  $\frac{1}{2}$  of the remainder on school fees for his child and then he saved 45,000 Frw. Find the worker's salary and choose the correct answer:

**(3 marks)**

A: 150,000 Frw

B: 120,000 Frw

C: 90,000 Frw

D: 75,000 Frw

16) Work out the following.

$$4.5 \text{ kg} + 13.6 \text{ dag} = \dots\dots\dots \text{ kg}$$

Choose the correct answer: **(2 marks)**

A: 46.36

B: 18.1

C: 5.86

D: 4.636



17) A farmer planted 20 trees along a terrace of his land. The trees were planted at intervals of 2 m. What is the length of the terrace planted with trees? **(2 marks)**

Choose the correct answer:

A: 10 m

B: 38 m

C: 40 m

D: 42 m

18) A cyclist left SANZE at 10:00 a.m., travelling at 40 km/hr. He arrived at its destination at 1:00 p.m. The distance covered is: **(2 marks)**

A: 440 km

B: 360 km

C: 120 km

D: 60 km

19) Change 15:54hr from 24-hour format to 12-hour format. Write the best answer. **(2 marks)**

A: 3:54 a.m

B: 3:54 p.m

C: 4:06 a.m

D: 4:06 p.m

20) Fill in the two following fractions in the sequence below:

$\frac{1}{2}, \frac{1}{4}, \frac{1}{8}; \dots; \dots$

**(2 marks)**

21) The area of a triangle is  $299\text{cm}^2$ . Its height is 23 cm.  
Find its base and choose the correct answer. **(2 marks)**

- A: 13 cm
- B: 26 cm
- C: 26 m
- D:  $13\text{ cm}^2$

22) a) How many vertices does a cube have? **(1 mark)**  
b) How many edges are there in a cuboid? **(1 mark)**

23) The perimeter of a square whose area is  $576\text{ m}^2$  is: **(2 marks)**  
A: 24 m  
B: 48 m  
C: 96 m  
D: 144 m

24) A rectangular field measuring 100 m by 50 m was drawn on a scale of 1:1000.  
The drawing area was: **(2 marks)**  
A:  $50\text{ cm}^2$   
B:  $50\text{ m}^2$   
C:  $5\text{ m}^2$   
D:  $5\text{ cm}^2$



25) Which of the following numbers is not a probability? **(2 marks)**

- a) 0.1;
- b) -1;
- c)  $\frac{1}{4}$
- d) 120%

26) If a card is drawn at random from a deck of cards (52 cards), the probability of getting a king equals to: **(2 marks)**

- A: 1
- B:  $\frac{1}{4}$
- C:  $\frac{2}{13}$
- D:  $\frac{1}{13}$

27) A business woman requested for a loan of 4,000,000 Frw from a bank that requires her to pay 60,000 Frw as interest after 3 months. The interest rate is: **(3 marks)**

- A: 6%
- B: 10%
- C: 12%
- D: 18%

28) Given the numbers 60, 84 and 96,  
a) Their lowest common multiple  
(LCM) is: **(2 marks)**

- A: 480
- B: 672
- C: 3,360
- D: 6,72

b) Their greatest common factor (GCF)  
is: **(2 marks)**

- A: 12
- B: 6
- C: 4
- D: 2

29) The length of a hollow calvert is 5m,  
its inner radius is 0.4m and its outer  
diameter is 1.2m. Take  $\pi = 3.14$   
The volume of the material used to  
make it is: **(3 marks)**

- A: 20,096 dm<sup>3</sup>
- B: 5,652 dm<sup>3</sup>
- C: 2,512 dm<sup>3</sup>
- D: 3,140 dm<sup>3</sup>



30) A shopkeeper has a mixture of red sorghum flour and white sorghum flour weighing 40 kg. One type costs 1,900 Frw per kg and another costs 2,100 Frw per kg. If the mixture is sold at 2,000 Frw per kg, find the number of kg of each type.

**(3 marks)**

Choose the correct answer:

- A: 20 kg and 20 kg
- B: 20 kg and 30 kg
- C: 30 kg and 40 kg
- D: 40 kg and 40kg

31) The sum of interior angles of a regular polygon is  $1440^\circ$ .

a) Find the number of sides of this polygon. **(2 marks)**

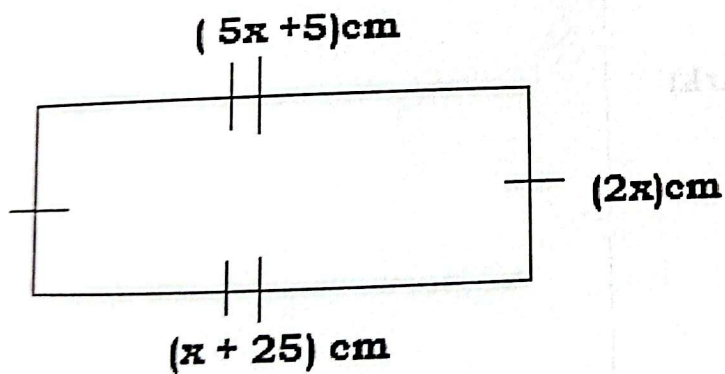
b) Name the polygon. **(1 mark)**

c) Find the size of the exterior angle of this regular polygon. **(1 mark)**

32) In a certain town, the ratio of adults to children is 4:5. The total number of adults and children is 9909 people. Calculate the number of children and the number of adults in this town.

**(3 marks)**

33) The shape below is a rectangle. Study it and answer the questions that follow.



a) Find the value of  $x$ .

**(3 marks)**

b) Find the length.

**(1 mark)**

c) Find the width.

**(1 mark)**



34) A family got 500,000 Frw and had the following projects they wanted to do:

- (i) Paying school fees worth 120,000 Frw;
- (ii) Painting a house at the cost of 100,000 Frw;
- (iii) Buying food for 200,000 Frw;
- (iv) Buying clothes for 150,000 Frw.

a) Order the family needs according to priority. **(2 marks)**

b) (i) How much money does the family require to meet their budget? **(2 marks)**

(ii) Do they have the required amount? **(2 marks)**

(iii) State the item that can be done later. **(1 mark)**

35) The following marks were obtained by a P6 class in a Mathematics Examination.

Marks	95	90	85	80	75	70	60
Number of learners	2	3	8	1	6	3	2

a) Complete this frequency table.

**(3 marks)**

Marks( $x$ )	Number of learners ( $f$ )	( $fx$ )
95	2	190
90		
85		
80		
75		
70		
60	2	
	$\sum f =$ .....	$\sum fx = \dots\dots\dots$



b) How many learners did the exam?

(1 mark)

c) What is the modal mark?

(1 mark)

d) What is the mean of the P6 class?

(2 marks)