



Examination for the Enlistment of Regular Soldiers in the Armed Forces of Malta (AFM) 2026

Subject: Mathematics
Date: 11th September 2026
Time: 09.00 – 10.30 (One and a half hours)

Instructions to candidates:

- This examination paper consists of **THREE** sections: A, B and C. Answer all 50 questions in these sections.
- Each question contains four possible answers, but only **ONE** is correct.
- Mark your answers on the Answer Sheet provided. Write **ONLY** your Index Number in the space provided on the Answer Sheet.
- It is recommended that candidates mark **ONLY** the correct answer initially in pencil to allow for any potential changes in answers. Candidates are then requested to mark the final answer in black or blue ink.

e.g. If answer C is selected, fill in the appropriate circle as shown below.

50.	☐ A	☐ B	☒ C	☐ D
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- Each question carries two (2) marks.
- Diagrams are **NOT** drawn to scale.
- The use of calculators is allowed.

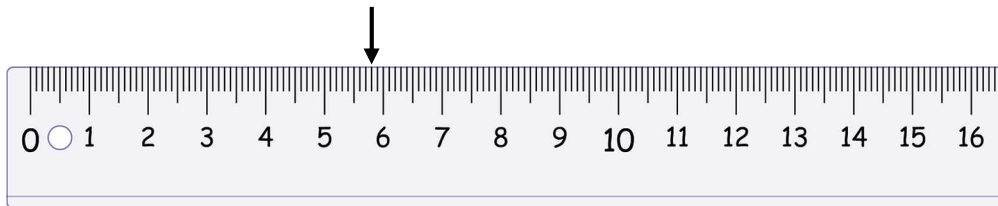
Section A

**This section contains twenty (20) questions (from 1 to 20).
Answer ALL questions.**

1 What is 41.987 rounded correct to one decimal place?

- A) 40 B) 41.1 C) 42.0 D) 41.9

2 The arrow is pointing to:



- A) 5.3 cm B) 5.8 cm C) 6.3 cm D) 6.8 cm

3 The next prime number after 23 is:

- A) 24 B) 25 C) 27 D) 29

4 Simplify completely: $\frac{12}{80}$

- A) $\frac{3}{20}$ B) $\frac{2}{15}$ C) $\frac{4}{20}$ D) $\frac{6}{40}$

5 Write this ratio in its simplest form:

48 : 36

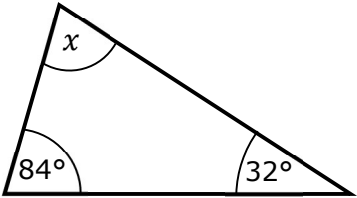
- A) 12 : 9 B) 4 : 3 C) 3 : 4 D) 8 : 6

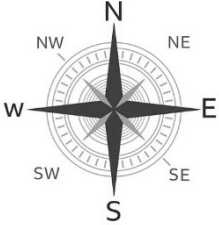
6 Write $\frac{11}{25}$ as a percentage.

- A) 11% B) 25% C) 44% D) 22%

7 A cruise liner leaves the harbour at 3.40 p.m.
What is this time in 24-hour clock format?

- A) 12:40 B) 13:40 C) 03:40 D) 15:40

8	One hundred and twenty is not equal to:	
	A) 8×15	B) $\frac{20 \times 15}{5}$ C) $390 - 270$ D) $360 \div 3$
9	Calculate the size of the angle marked x .	
	A) 64°	B) 244° C) 52° D) 116°
10	A bag contains 10 white pencils, 20 red pencils, 8 yellow pencils, and 2 blue pencils. What is the probability that a randomly selected pencil is black?	
	A) certain	B) likely C) unlikely D) impossible
11	Calculate the volume of a cuboid with sides 10 cm by 5 cm by 12.5 cm.	
	A) 27.5 cm^3	B) 6250 cm^3 C) 55 cm^3 D) 625 cm^3
12	Which of the following statements is FALSE?	
	A) A rectangle has all sides equal and all angles equal.	
	B) A square has 4 lines of symmetry.	
	C) Angles in a quadrilateral add up to 360° .	
	D) A trapezium, a kite and a rhombus are all quadrilaterals.	
13	Work out 12% of 150.	
	A) 0.12	B) 18 C) 6 D) 1800
14	Write the next two terms of the sequence: 6.9, 7.2, 7.5, 7.8, _____, _____.	
	A) 8.0, 8.3	B) 8.1, 8.4 C) 8.1, 8.5 D) 8.2, 8.5

15	Simplify: $5g + 6h - 8h - 3g + 2h$	
	A) $2g$ B) $8g$ C) $2g + 16h$ D) $2gh$	
16	Five different flights carried the following numbers of passengers: 181 198 192 198 176 The mean number of passengers is:	
	A) 22 B) 189 C) 198 D) 945	
17	Karl is facing West. He turns 225° clockwise. Karl is now facing:	
	A) South-East B) South C) North-East D) East	
18	Expand and simplify: $3(x + 5) - 6x$	
	A) $2x$ B) $9x + 15$ C) $15 - 3x$ D) $-3x + 5$	
19	Work out: $\sqrt[3]{64} - 1^{10}$	
	A) 15 B) 7 C) 4 D) 3	
20	How many 200 ml glasses can be filled completely from a 1.5 litre bottle?	
	A) 6 B) 7 C) 7.5 D) 8	

20 x 2 marks = **40 marks**

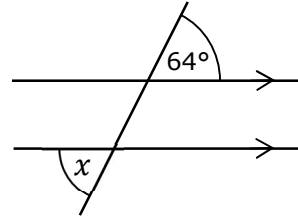
Section B

**This section contains twenty (20) questions (from 21 to 40).
Answer ALL questions.**

21	Find the value of: $(5 - 9) - (21 - 7) + 46$			
	A) 28	B) 36	C) 56	D) 64
22	Given that $a = \frac{x+c}{b}$, make x the subject of the formula.			
	A) $x = ab + c$	B) $x = a - b + c$	C) $x = ab - c$	D) $x = a - b - c$
23	Work out: $\frac{3}{5} + \frac{14}{45}$			
	A) $\frac{23}{45}$	B) $\frac{17}{50}$	C) $\frac{41}{45}$	D) $\frac{14}{75}$
24	Solve: $5x + 8 = 52$			
	A) 12	B) 8.8	C) 9	D) 4
25	Francesca started her driving lesson at 2:50 p.m. and finished at 3:35 p.m. How long was her driving lesson?			
	A) 35 min	B) 45 min	C) 75 min	D) 85 min
26	Maria pays €1.44 for 200 g of ham. How much does 350 g of ham cost?			
	A) €2.52	B) €2.88	C) €4.86	D) €5.04

27 Work out the size of angle x .

- A) 116°
- B) 64°
- C) 32°
- D) 26°



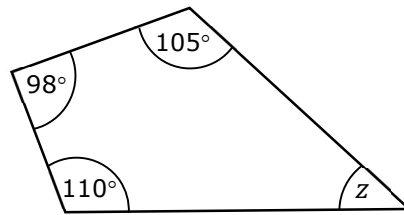
28 If $A = x(2y + 3z)$, find the value of A when $x = 5$, $y = 6$ and $z = 7$.

- A) 81
- B) 90
- C) 165
- D) 4

29 Express 315 as a product of prime factors in index form.

- A) $3^2 \times 5$
- B) 31×5
- C) $5^2 \times 13$
- D) $3^2 \times 5 \times 7$

30 Work out the size of the angle marked z .



- A) 47°
- B) 70°
- C) 75°
- D) 82°

31 Which two of the following fractions are equivalent to each other?

$$\frac{1}{4} \quad \frac{2}{7} \quad \frac{4}{49} \quad \frac{14}{28} \quad \frac{6}{21}$$

- A) $\frac{14}{28}$ and $\frac{6}{21}$
- B) $\frac{2}{7}$ and $\frac{4}{49}$
- C) $\frac{1}{4}$ and $\frac{14}{28}$
- D) $\frac{2}{7}$ and $\frac{6}{21}$

32 A greengrocer records the number of strawberry boxes sold each day during a particular week.

63 50 35 72 57 78 93

Calculate the range of the number of strawberry boxes sold per day.

- A) 58
- B) 63
- C) 64
- D) 78

33 Express 336 millilitres as a percentage of 2.8 litres.

- A) 8.3% B) 12% C) 83.3% D) 120%

34 Which of the following numbers is closest to 3?

- A) 3.11 B) 3.02 C) 2.9 D) 3.009

35 While on holiday in Hungary, Tony paid 8550 Hungarian Forint (HUF) for a meal. If €1 is equivalent to 380 HUF, find the cost of the meal in euro.

- A) €22.50 B) €23.75 C) €44.44 D) €47.50

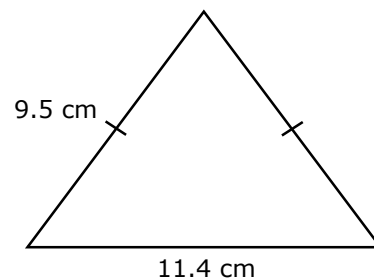
36 A concert ticket for a seat in the bronze zone costs €120.
A concert ticket for a seat in the gold zone costs 25% more.
How much does a ticket for a seat in the gold zone cost?

- A) €30 B) €90 C) €145 D) €150

37 Estimate the circumference of a circle with a diameter of 10 cm.

- A) 30 cm^2 B) 60 cm^2 C) 75 cm^2 D) 300 cm^2

38 Calculate the perimeter of this triangle.

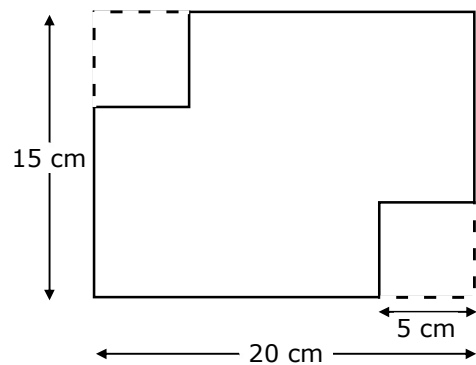


- A) 20.9 cm B) 30.4 cm C) 60.8 cm D) 380 cm

- 39 A printer charges x euro to create an invitation design and y euro for each invitation that is printed. Write the formula for the total cost, C euro, for the design and printing of 130 invitations.

- A) $C = 130(x + y)$
B) $C = 130x + y$
C) $C = x + 130y$
D) $C = 130 + xy$

- 40 Two square pieces, each of side 5 cm, are cut out from a rectangular cardboard. Calculate the area of the remaining part.



- A) 300 cm^2 B) 168 cm^2 C) 250 cm^2 D) 350 cm^2

20 x 2 marks = **40 marks**

Section C

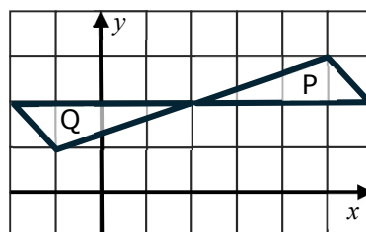
**This section contains ten (10) questions (from 41 to 50).
Answer ALL questions.**

- 41 The equation of a line is given by $y = 4x + c$.
What is the y -intercept if the line passes through the point (2, 3)?

A) -5 B) 3 C) 5 D) 10

- 42 The transformation from triangle P to triangle Q is a:

- A) Reflection in the y -axis
B) Reflection in the x -axis
C) Rotation of 90° clockwise
D) Rotation of 180°

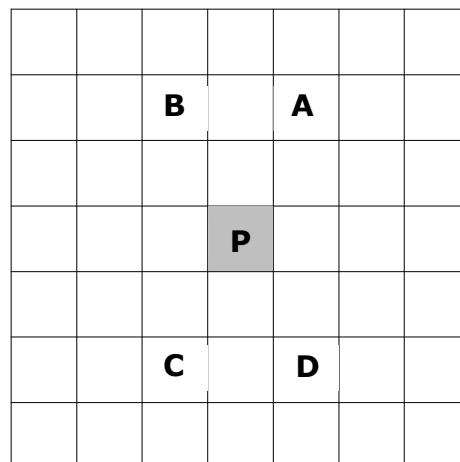


- 43 A map has a scale of 1 : 10 000.
On the map the distance between the base and a training camp is 47 mm.
What is the actual distance?

A) 470 000 cm B) 470 m C) 4.7 km D) 47 000 mm

- 44 On this grid, start from square P.
Move 3 squares South-East, then
5 squares North, and finally
2 squares West.

Which square is the final position?



A) A B) B C) C D) D

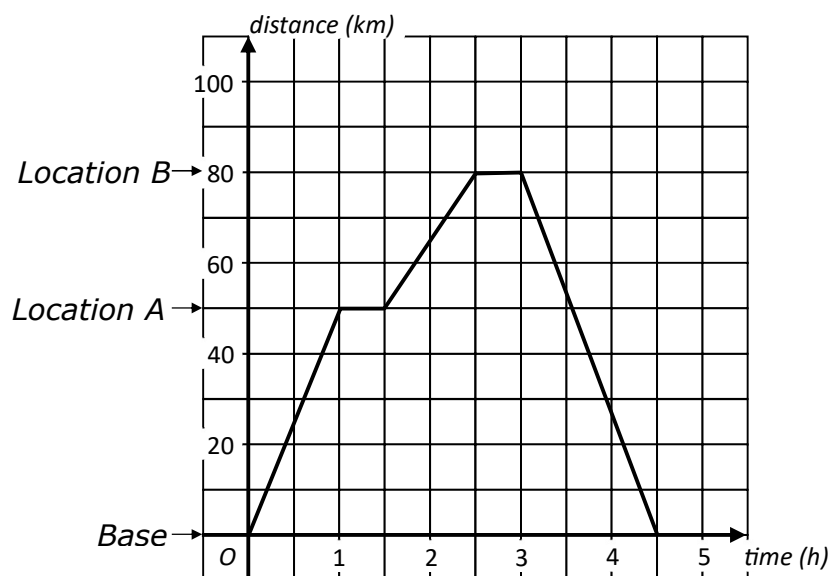
- 45 The bonuses received by a gunner, a bombardier and a sergeant are in the ratio 7 : 8 : 9 respectively. The total of these bonuses is €2880. How much is the bonus of the gunner?

A) €70 B) €120 C) €411 D) €840

- 46 A ration pack costs r euro and a water bottle costs w euro. A soldier receives 3 ration packs and 2 water bottles costing a total of €18. Which one of the following equations correctly represents this information?

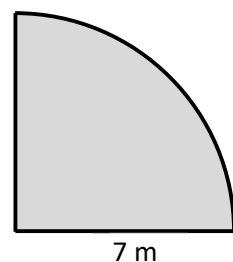
A) $3r + 2w = 18$ B) $6rw = 18$ C) $\frac{3r}{2w} = 18$ D) $18 = r + w$

- 47 In a mission, a squad leaves the base to travel to Location A and then to Location B. Afterwards, they travel back to their base. What is the total distance travelled by the squad?



A) 50 km B) 80 km C) 130 km D) 160 km

- 48 A garden is in the shape of a quadrant of radius 7 m. What is the area of the garden, correct to the nearest whole number?



A) 14 m^2 B) 38 m^2 C) 44 m^2 D) 49 m^2

- 49 Etienne earns €1500 per month. Each month he plans to spend €470 on bills and €850 on other expenses. He plans to save the rest.

After how many months will he save at least €2000?

A) 10 months B) 11 months C) 12 months D) 13 months

- 50 The time for 35 participants to complete an obstacle course is shown in this frequency table. An award, which costs €5, is given to each participant who completes it in less than 25 minutes.

What is the total cost of the awards?

Time (t , min)	Number of participants
$10 \leq t < 15$	6
$15 \leq t < 20$	12
$20 \leq t < 25$	9
$25 \leq t < 30$	5
$30 \leq t < 35$	3

A) €27 B) €35 C) €125 D) €135

10 x 2 marks = **20 marks**

TOTAL: 100 MARKS

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