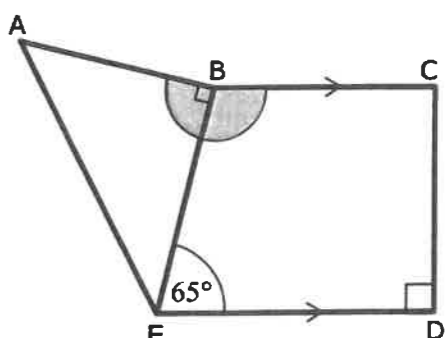
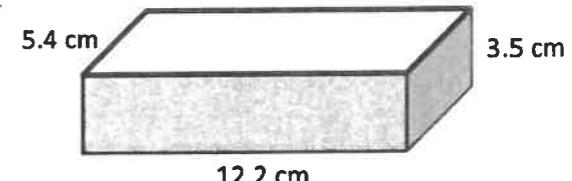


28	Work out $\frac{24}{27} \times \frac{9}{56}$.		
A) $\frac{4}{9}$	B) $\frac{4}{27}$	C) $\frac{1}{7}$	D) $\frac{1}{8}$
29	The length of a wooden plank is measured by three people. The lengths recorded are 324 cm, 326 cm and 331 cm. Calculate the mean length of the plank.		
A) 324 cm	B) 329 cm	C) 326 cm	D) 327 cm
30	Which one of the following statements is correct?		
A) $5.7 < 5.634$	B) $4.88 < 4.7931$	C) $5.728 < 5.73$	D) $8.324 > 8.342$
31	The scale of a map is 1 cm to 5 km. The actual distance between two towns is 38 km. Calculate the distance between these two towns on the map.		
A) 7.6 cm	B) 5 cm	C) 6.7 cm	D) 0.5 cm
32	A car travelled for 2 hours 45 minutes and arrived at its destination at 17.00. At what time did the car journey start?		
A) 11.15	B) 14.15	C) 15.15	D) 12.15
33	A handbag is priced at €200. During a sale it is sold at a discount of 18%. Calculate the new price.		
A) €164	B) €236	C) €182	D) €218
34	Find two common factors of 210 and 168.		
A) 4 and 7	B) 3 and 4	C) 3 and 7	D) 3 and 10
35	A table is 102 cm high and a chair is 120 cm high. Express the height of the table as a percentage of the height of the chair.		
A) 118%	B) 85%	C) 80%	D) 82%

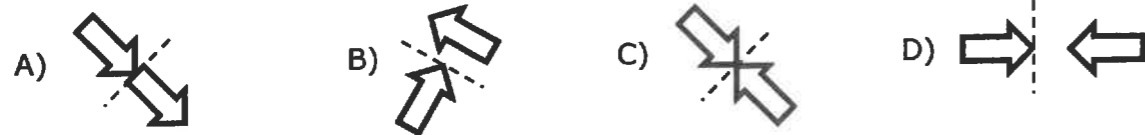
36	The shaded angle \widehat{ABC} is made up of angle \widehat{ABE} and angle \widehat{CBE} . Calculate the size of angle \widehat{ABC} .					
A) 165°	B) 155°	C) 145°	D) 205°			
37	18 is a multiple of:	A) 2, 3, 4 and 6	B) 2, 3, 6 and 12	C) 2, 3, 6 and 9	D) 3, 6, 8 and 9	
38	A group of 24 children and 5 adults visit a museum. Child tickets cost x euro each and adult tickets cost y euro each. Form an equation to find the total cost, C , in euro.	A) $C = 120xy$	B) $C = 5x + 24y$	C) $C = 29(x + y)$	D) $C = 24x + 5y$	
39	Calculate the value of x when $a = 2$ and $b = 3$, given that $x = 2a + 3b$	A) 13	B) 0	C) -5	D) -12	
40	Calculate the total area of the two shaded faces of the cuboid.		A) 108.58 cm^2	B) 230.58 cm^2	C) 84.78 cm^2	D) 61.6 cm^2

20 x 2 marks = 40 marks

Section C

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

41 Which of the following shows a reflection in the dotted line?



42 Solve the equation $3(x + 5) = 39$

- A) $x = 13$ B) $x = 8$ C) $x = \frac{1}{2}$ D) $x = -1$

43 8 out of 50 people have blue eyes. What percentage do not have blue eyes?

- A) 84% B) 16% C) 8% D) 42%

44 The residents in a small hotel are 16 Italians, 23 French and 15 Spanish. By 2 pm 4 Italians, 12 French and 8 Spanish people checked out of the hotel while 4 Italians, 18 French and 10 Spanish people checked in. How many residents does the hotel have at 2 pm?

- A) 65 B) 72 C) 56 D) 62

45 A bag contains 24 counters. 6 counters are red, 5 are blue, 8 are green and the rest are yellow. One counter is drawn at random. What is the probability that the counter is either yellow or blue?

- A) $\frac{7}{12}$ B) $\frac{5}{24}$ C) $\frac{5}{12}$ D) $\frac{3}{4}$

Section B

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

21 Complete the sequence: $3\frac{3}{4}, 4, 4\frac{1}{4}, 4\frac{1}{2}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$

- A) $5, 5\frac{1}{2}$ B) $5, 5\frac{1}{4}$ C) $4\frac{3}{4}, 5$ D) $5\frac{1}{4}, 5\frac{1}{2}$

22 Round 348 g to the nearest 10 g.

- A) 360 g B) 350 g C) 340 g D) 330 g

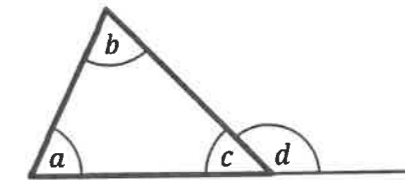
23 Work out the following, giving your answer correct to 2 decimal places:

$$\frac{23.4 \times 82.7}{5.4 + 3.1}$$

- A) 227.67 B) 115.60 C) 361.47 D) 12.48

24 Which one of the following statements is TRUE.

- A) $d = a + b$
B) $c = a + b$
C) $a = c + d$
D) $a = b + c$



25 Convert $22\frac{1}{2}\%$ to a decimal.

- A) 22.5 B) 0.225 C) 2.25 D) 22.05

26 Carmen's car fuel gauge read $\frac{3}{8}$ full before going to the petrol station. She fills the fuel tank further to read $\frac{3}{4}$ full. What fraction of the fuel tank did she fill at the petrol station?

- A) $\frac{1}{4}$ B) $\frac{2}{8}$ C) $\frac{3}{8}$ D) $\frac{1}{8}$

27 A fire engine holds 12 000 litres of water. It can pump 720 litres every 2 minutes. How long will it take to empty the fire engine?

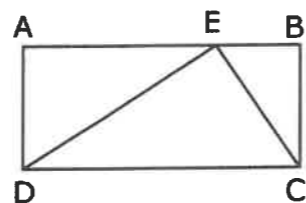
- A) 12 minutes B) 24 minutes C) 36.5 minutes D) 33.3 minutes

16 Which pair of the following angles together can form a straight line?

- A) 80° and 60°
- B) 35° and 145°
- C) 90° and 70°
- D) 45° and 45°

17 The rectangle ABCD has an area of 36 cm^2 . Find the **area of triangle EDC**.

- A) 8 cm^2
- B) 20 cm^2
- C) 12 cm^2
- D) 18 cm^2



18 The area of a circle, radius r , is calculated by using the formula:

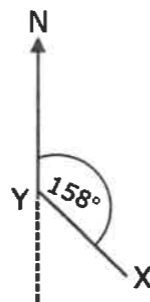
- A) $2\pi r$
- B) πr^2
- C) $2\pi r^2$
- D) $4\pi r$

19 How many right angles make a whole revolution?

- A) 4
- B) 2
- C) 6
- D) 8

20 The bearing of X from Y is given by

- A) 202°
- B) 158°
- C) 022°
- D) 22°



20 x 2 marks = **40 marks**

46 In a supermarket, the price of cheddar cheese is marked at $\text{€}8.64$ per kg and the price of olives is marked at $\text{€}10.50$ per kg. What is the total price of 250 g of cheddar cheese and 100 g of olives?

- A) $\text{€}3.50$
- B) $\text{€}4.80$
- C) $\text{€}3.64$
- D) $\text{€}3.21$

47 A film on TV starts at 23:35 and ends the following day at 01:50. In all there were 25 minutes of adverts. Calculate the actual length of the film?

- A) 1 hour 50 minutes
- B) 1 hour 75 minutes
- C) 85 minutes
- D) 1 hour

48 How many whole parts are there in: $3\frac{1}{4} + 1\frac{5}{8} \times 2$?

- A) 8
- B) 7
- C) 6
- D) 5

49 If $P \times 25 = Q$, then $Q \div 25$ is equal to:

- A) P
- B) 25
- C) Q
- D) 5

50 The picture of a square is enlarged in a photocopier. The image will be a:


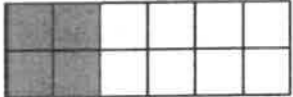
- A) cube
- B) square
- C) rectangle
- D) rhombus

10 x 2 marks = **20 marks**

TOTAL: 100 MARK

END OF PAPER

BLANK PAGE

8	Fill in the missing terms in the sequence 10.5, 12, 13.5, ____, 16.5, ____ A) 14.5, ..., 17 B) 15, ..., 17.5 C) 16, ..., 19 D) 15, ..., 18
9	Express 0.65 as a fraction in its simplest form. A) $\frac{15}{25}$ B) $\frac{13}{20}$ C) $\frac{9}{20}$ D) $\frac{13}{50}$
10	Express $\frac{9}{25}$ as a percentage. A) 3.6% B) 9% C) 36% D) 63%
11	A rectangle has sides 6 cm and 10 cm. Calculate the perimeter. A) 36 cm B) 16 cm C) 8 cm D) 32 cm
12	This triangle is  A) equilateral B) isosceles C) right angled D) scalene
13	What fraction of this shape is shaded?  A) $\frac{1}{4}$ B) $\frac{1}{12}$ C) $\frac{1}{3}$ D) $\frac{1}{6}$
14	Work out $5 \times 3 + 4 \times 8$ A) 47 B) 280 C) 480 D) 35
15	The following are the number of goals scored by a football team. 2, 1, 0, 3, 1, 2, 0, 2 What is the mode? A) 1 B) 2 C) 0 D) 3

Section A

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

1	The sum of 129 and 384 is: A) 413 B) 513 C) 503 D) 500
2	Change 7210 metres into kilometres. A) 721 km B) 0.721 km C) 72.1 km D) 7.21 km
3	Simplify the ratio 32 : 48 A) 2 : 3 B) 16 : 14 C) 4 : 8 D) 16 : 18
4	Change 2.5 hours into minutes. A) 210 minutes B) 180 minutes C) 150 minutes D) 120 minutes
5	Work out: $\frac{1}{4}$ of €160 A) €80 B) €40 C) €60 D) €25
6	17:30 is the same as A) 5:30 am B) quarter past five in the afternoon C) half past five in the afternoon D) half past five in the morning
7	Which one of the following sets of numbers is arranged in order of size, starting with the largest: A) 28.91 , 28.75 , 27.85 , 25.95 B) 25.95, 28.91 , 27.85 , 28.75 C) 28.75 , 27.85 , 25.95 , 28.91 D) 25.95 , 27.85 , 28.75 , 28.91

BLANK PAGE



Examination for the Enlistment of Soldiers in the Armed Forces of Malta

Subject: Mathematics

Date: 29 October 2020

Time: 09.00 – 10.00 (One hour)

BLANK PAGE

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.
- Enter your answers on the Answer Sheet provided. Mark **ONLY** the correct answer by using a pencil.

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

50.	<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D
-----	-------------------------	-------------------------	------------------------------------	-------------------------

- Each question carries two (2) marks.
- Diagrams are **NOT** drawn to scale.
- The use of calculators is allowed.