This is a Class 1 exam

Lebanon Evangelical School for Boys and Girls

Lebanon Evangelical School

for Boys and Girls Loueizeh - Baabda

Stage Exam 03

16MAY2025

Do NOT write in this box. Your MARK will be placed here.

Subject :	Maths
Class :	6A, 6B, 6E
Teacher :	Ms. Dalida Jammal
Duration :	1 hour

Write the answers on the exam paper.
Use a pencil to draw any figure.
Show your work.
Keep your paper well organized.

You are to answer the questions to this exam on : This exam paper

Your name :		*Time taken to complete exam*
Your Class :		
Exam Room :		
How many sheets, including cover sheet :		

- Do not open this paper until the teacher in charge instructs you to do so.
- The most important thing to remember in taking an exam is NEVER PANIC.
- If you are caught cheating in this exam, you will be awarded zero for ALL exams that are taken on this day.

Please make sure to SHOW your work.

Part 1) Algebra

I) Find the missing measurement for each parallelogram. (2 points each)
Note that : A stands for Area; B stands for Base; H stands for Height; C stands for Circumference; R stands for Radius, and D stands for Diameter.

1)	2)
A = B = 12.3 in H = 6.8 in	A = 5.52 km² B = H = 1.2 km

II) Find the missing measurement for each rectangle. (2 points each)

1)	2)
A = 12.96 ft² B = H = 7.2 ft	A = B = 9.6 m H = 3.42 m

III) Find the missing measurement for each circle. (2 points each)

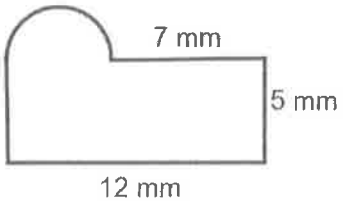
1)	2)
D = 8 cm R = C =	D = R = 3.5 cm C =

IV) Find the missing measurement for each triangle. (2 points each)

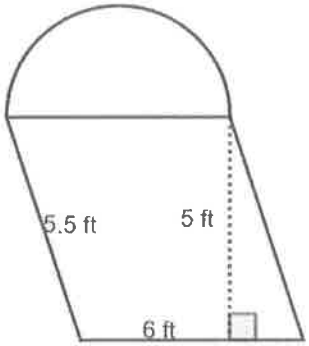
1)	2)
A = B = 12 in H = 5 in	A = B = 12.6 ft H = 3.4 ft

V) Find the area for each irregular figure. (3 points each)

1)

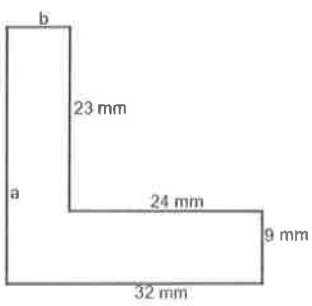


2)

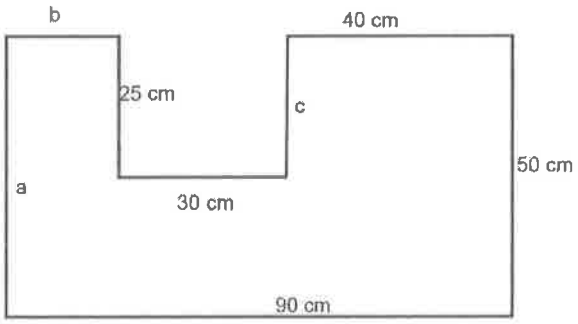


VI) Find the lengths of each unknown side, then find the perimeter. (2 points each)

1)



2)



VII) Convert. (1point each)

1) **72 L = _____ ml**

2) **5.38 kg = _____ g**

3) **0.94 ml = _____ L**

4) **90 g = _____ kg**

5) **3.92 km = _____ cm**

6) **623 m = _____ mm**

7) **1.58 mm= _____ dm**

8) **29.53 kg = _____ g**

Part 2) Geometry.

1) Draw an angle $\widehat{AIB} = 70°$ *in the space below.* (1 *point*)

a) Draw [IC) the opposite of semi-line [IA). (1point)
b) What is the measure of $\widehat{BIC}$? (1point)
c) Draw [ID) perpendicular to [IB) at I. Note that: D is below (AC). (1point)
d) What is the measure of $\widehat{DIA}$? (1*point*)
e) What is the measure of $\widehat{DIC}$? (1*point*)
f) Using a compass, draw [IE) the angle bisector of $\widehat{CID}$. (1*point*)
g) Are I, E, and B collinear? Justify (2points)
h) Draw [IF) the opposite of [ID). Name two vertically opposite angles (3points)

Fill your answers in the assigned box.

b)	d)	e)

g)	h)

SE03/20242025/Maths/6ABE

Part 1) Algebra

I ① Area =
Base = 12.3 in
Height = 6.8 in

$A = B \times H$ (1)
$= 12.3 \times 6.8$
$A = 83.64\ in^2$ (1)

② Area = 5.52 km^2
Base =
Height = 1.2 km

$A = B \times H$ (1)
$5.52 = B \times 1.2$
$B = 5.52 \div 1.2$
$B = 4.6$ km (1)

II ① Area = 12.96 ft^2
Base =
Height = 7.2 ft

$A = B \times H$ (1)
$12.96 = B \times 7.2$
$B = 12.96 \div 7.2$
$B = 1.8$ ft (1)

② Area =
Base = 9.6m
Height = 3.42m

$A = B \times H$ (1)
$A = 9.6 \times 3.42$
$A = 32.832\ m^2$ (1)

III ① D = 8cm
R =
C =

$R = D \div 2$ $R = 4$cm (½)
$R = 8 \div 2$
$C = \pi \times D$ / $\pi \times 2R$ (½)
$C = 3.14 \times 8$
$C = 25.12$ cm (1)

② D =
R = 3.5 cm
C =

$D = 2 \times r$ (½)
$= 3.5 \times 2$
$D = 7$cm

$C = \pi \times 2R$ (½)
$= 3.14 \times 7$
$C = 21.98$cm
(1)

IV ① Area =
Base = 12in
Height = 5in

$A = \frac{B \times H}{2}$ (1/2)

$A = \frac{^{6}12 \times 5}{2_{1}}$ (1/2)

$A = 30\ in^2$ (1)

② Area =
Base = 12.6ft
Height = 3.4ft

$A = \frac{B \times H}{2}$ (1/2)

$A = \frac{^{6.3}12.6 \times 3.4}{2_{1}}$ (1/2)

$A = 21.42\ ft^2$ (1)

V ① $A_1 = B \times H$ (rectangle)
$12 \times 5 = 60 mm^2$ (1)

$A_2 = \frac{\pi \times r^2}{2}$ (semi-circle) (1)

$A_2 = \frac{3.14 \times 2.5^2}{2}$

$A_2 = \frac{^{1.57}3.14 \times 6.25}{2_{1}}$

$A_2 = 1.57 \times 6.25 = 9.8125\ mm^2$ (1)

Total Area = 60 + 9.8125
TA = 69.8125 mm^2

② $A_1 = B \times h$ (parallelogram) (1)
$= 6 \times 5 = 30\ ft^2$
$A_1 = 30 ft^2$

$A_2 = \frac{\pi \times r^2}{2}$ (semi_circle)

$A_2 = \frac{3.14 \times 3^2}{2} = \frac{3.14 \times 9}{2} = 14.13\ ft^2$ (1)

$A_2 = 14.13 ft^2$

Total Area $= 30 + 14.13 = 44.13 ft^2$ (1)

VI ① $a = 9 + 23 = 32\ mm$ (½)

$b = 32 - 24 = 8\ mm$ (½)

$P = 32 + 8 + 23 + 24 + 9 + 32$ (1)

$P = 128\ mm$

② $a = 50\ cm$

$b = 20\ cm$

$c = 25\ cm$

$40 + 30 = 70$

$90 - 70 = 20$ (1)

$P = 50 + 20 + 25 + 30 + 25 + 40 + 50 + 90$

$P = 330\ cm$ (1)

VII ① $72\ L = 72{,}000\ mL$ (1)

② $5.38\ kg = 5{,}380\ g$ (1)

③ $0.94\ mL = 0.00094\ L$ (1)

④ $90\ g = 0.09\ kg$ (1)

⑤ $3.92\ km = 392{,}000\ cm$ (1)

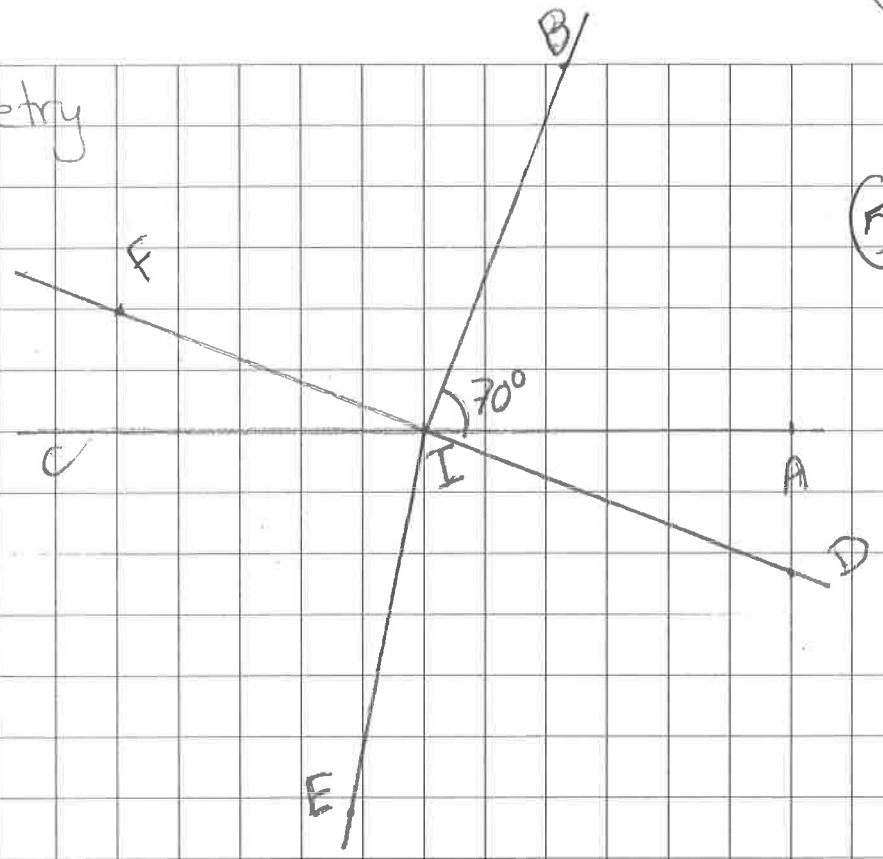
⑥ $623\ m = 623{,}000\ mm$ (1)

⑦ $1.58\ mm = 0.0158\ dm$ (1)

⑧ $29.53\ kg = 29{,}530\ g$ (1)

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Par 2) Geometry (5)



b) $B\hat{I}C = 180 - 70 = 110°$ (1)

d) $D\hat{I}A = 90° - 70° = 20°$ (1)

e) $D\hat{I}C = 180° - D\hat{I}A = 180° - 20° = 160°$ (1)

g) $B\hat{I}E = B\hat{I}A + A\hat{I}D + D\hat{I}E = 70 + 20 + 80$
$= 170$
not collinear (2)

h) $A\hat{I}D$ and $C\hat{I}F$ (1)