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

26JAN2024

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

Subject :	Maths
Class :	6C
Teacher :	Mr. George Mouhayar
Duration :	1 hour

Answer all the questions on the 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.

I. Compare the following decimals using >, < or = (4 marks)

a) 1.905 _____ 1.095
b) 58.058 _____ 58.05800
c) 652.2520 _____ 651.752
d) 869.145_____ 896.145

II. Write each number in scientific notation. (6 marks)

1. 63,770,000

2. 1980

3. 823.4000

III. Evaluate. Show clearly all your steps. (8 marks)

a) 12.01 + 3.004 =

b) 7.021 – 2.98 =

c) 12.864 × 4 =

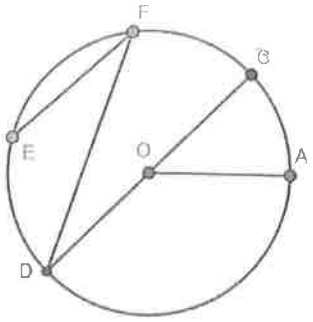
d) 0.104 ÷ 0.8=

IV. Given the following circle of center O. (3 marks)

1) Name a diameter

2) Name two radii

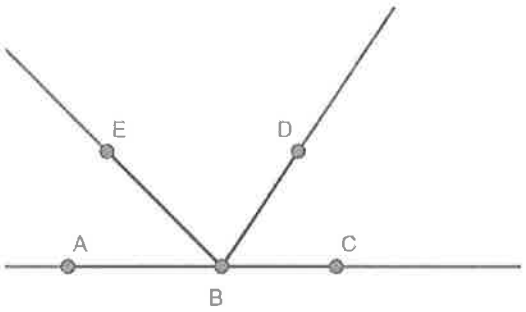
3) Name two chords



V. Draw the perpendicular bisector of the given segment (do not erase the arcs) (4 marks)



VI. Given the following diagram.



a) Are the angles $\widehat{ABE}$ and $\widehat{ABD}$ adjacent? Why? (3 marks)

b) Are the angles $\widehat{CBD}$ and $\widehat{ABD}$ adjacent? Why? (3 marks)

VII. For each given pair of angles tell if they are complementary, supplementary, or neither. (5 marks)

a) $\widehat{ABC} = 45°$ $\widehat{DEF} = 145°$ _____

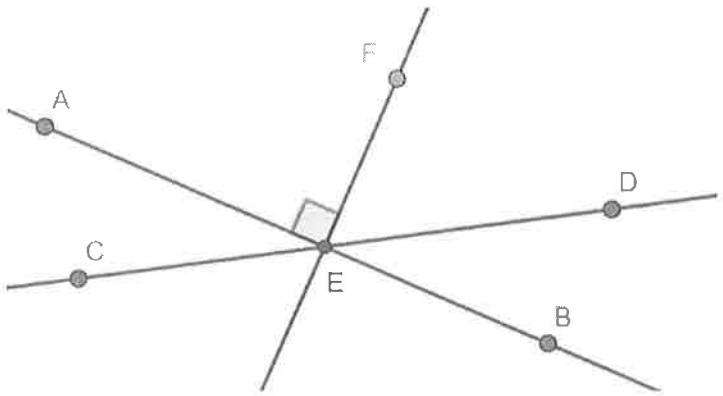
b) $\widehat{GHI} = 37°$ $\widehat{KLM} = 53°$ _____

c) $\widehat{NOP} = 90°$ $\widehat{QRS} = 90°$ _____

d) $\widehat{TUV} = 180°$ $\widehat{XYZ} = 90°$ _____

e) $\widehat{WAB} = 88°$ $\widehat{CDE} = 102°$ _____

VIII. Using the angles of the following diagram: (5 marks)



a) Name an acute angle. _____

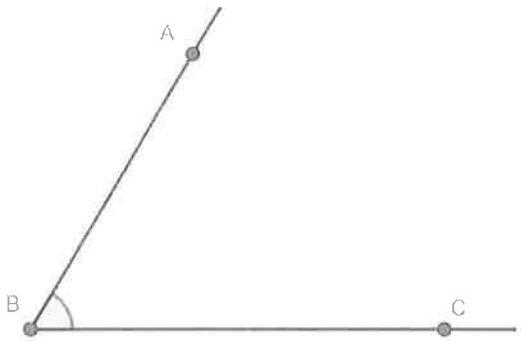
b) Name an obtuse angle. _____

c) Name a straight angle. _____

d) Name a right angle. _____

e) Name two vertically opposite Angles. _____

IX. Draw the angle bisector of $\widehat{ABC}$ using a compass and a ruler. (do not erase the arcs) (4 marks)



X.

1. Draw a segment [AB] of measure 6 cm. (5 marks)

2. Draw the circle (C_1) of center A and of radius 4 cm. (C_1) cuts [AB] in H. What is the measure of segment [HB]?

3. Draw the circle (C_2) of center B and of radius 4 cm.

4. (C_2) cuts [AB] in F. What is the measure of segment [AF]?

Solution for SE03
Maths 6C - 2023 2024

class 1

I

a. $1.905 > 1.095$

b. $58.058 = 58.05800$

c. $652.2520 > 651.752$

d. $869.145 < 896.145$

1 pt. each

II.

1. 6.377×10^{7}
2. 1.98×10^{3}
3. 8.234×10^{2}

2 pts. each

III.

a.
$$\begin{array}{r} 12.010 \\ +\ 03.004 \\ \hline 15.014 \end{array}$$

b.
$$\begin{array}{r} {\scriptstyle 6\ \ 9\ 12} \\ 7.\not{0}\not{2}1 \\ -\ 2.980 \\ \hline 4.041 \end{array}$$

c.
$$\begin{array}{r} {\scriptstyle ①\ ③\ ②\ ①} \\ 12.864 \\ \times\ \ \ \ \ \ 4 \\ \hline 51.456 \end{array}$$

2 pts each

d.
$$\begin{array}{r|l} 0.8 & 0.104 \\ & -\ 8 \\ & \hline & 24 \\ & -\ 24 \\ & \hline & 0 \end{array} \qquad \boxed{0.13}$$

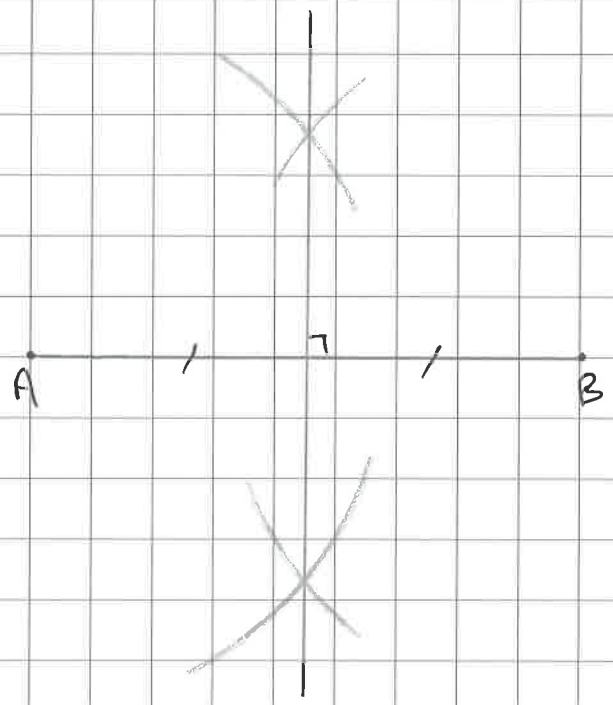
IV

1) Diameter : [CD] (1)

2) [OC] , [OD] , [OA]
(1/2) (1/2)

3) [EF] , [FD]
(1/2) (1/2)

V



(4)

VI

a. NO (1.5) They are not situated on both sides of the common side (1.5)

b. YES (1)
common vertex B
common side [BD)
situated on both sides of the common side (2)

VII

a.	$45 + 145$	$=$	$190°$	Neither
b.	$37 + 53$	$=$	$90°$	Complementary
c.	$90 + 90$	$=$	$180°$	Supplementary
d.	$180 + 90$	$=$	$270°$	Neither
e.	$88 + 102$	$=$	$190°$	Neither

1 pt each

VIII

a. acut angle: $A\hat{E}C$ or $B\hat{E}D$ or $F\hat{E}D$ (1)

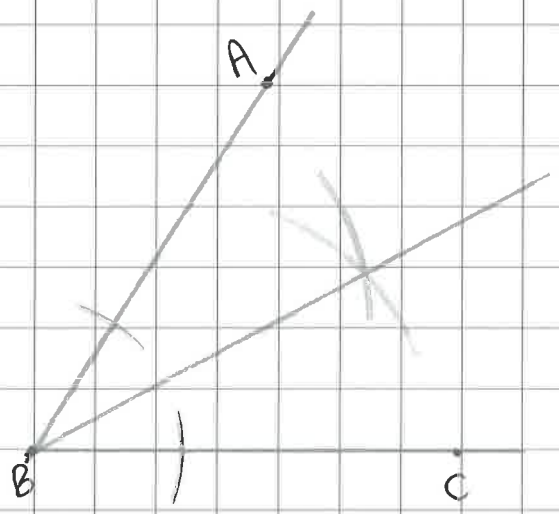
b. obtuse angle: $C\hat{E}F$ or $C\hat{E}B$ or $A\hat{E}D$ (1)

c. Straight angle: $C\hat{E}D$ or $A\hat{E}B$ (1)

d. Right angle: $A\hat{E}F$ or $F\hat{E}B$ (1)

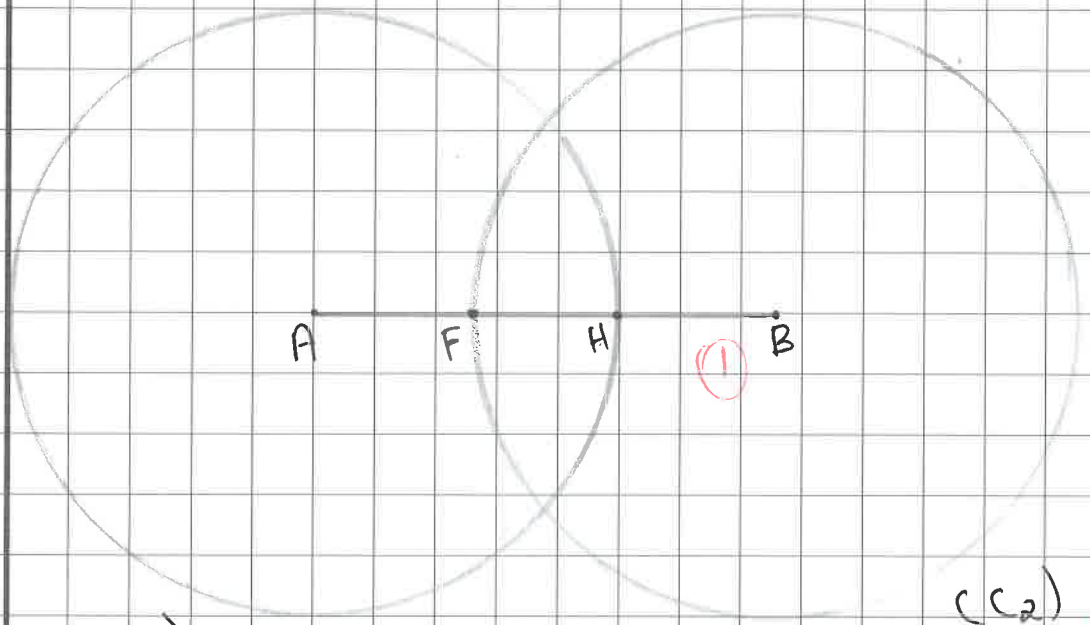
e. vertically opposite angles: $A\hat{E}C$ and $D\hat{E}B$ (1)

IX.



4

X



(1) (C_1) (C_2) (1)

$$HB = AB - AH$$
$$= 6 - 4$$
$$= 2\,cm$$ (1)

$$AF = AB - BF$$
$$= 6 - 4$$
$$= 2\,cm$$ (1)