This is a Class 1 exam

Lebanon Evangelical School
for Boys and Girls
Loueizeh - Baabda

Stage Exam 02

26MAR2025

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

Subject :	Maths
Class :	6C
Teacher :	Mr. Mohammed Assaf
Duration :	1 hour

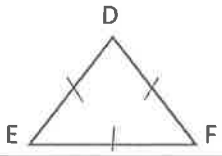
Calculators are NOT allowed

You are to answer the questions to this exam on : Squared 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. For each question, indicate the right answer. [6 points]

No.	Questions	Answer A	Answer B	Answer C
1	The sum of angles in a triangle is:	180^0	90^0	360^0
2	$\frac{3}{10}+\frac{3}{10}=\ldots$	$\frac{3}{20}$	$\frac{3}{10}$	$\frac{6}{10}$
3	If the distance from a point to the center of a circle is equal to the radius, it means:	The point is at the exterior of the circle	The point is at the circle	The point is at the interior of the circle
4	$\frac{5}{12}-\frac{1}{6}=\ldots$	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
5	DEF is an equilateral triangle, then: 	DE = EF only	DE = DF only	DE = EF = DF
6	If the distance from center O of a circle to the line (D) is less than the radius, then:	(D) never cuts the circle	(D) has only one common point with the circle	(D) cuts the circle in two distinct points

II. Simplify each expression. [4.5 points]

1) $10-5\frac{7}{8}$

2) $7\frac{1}{3}+8\frac{3}{4}$

3) $30\frac{5}{3}-15\frac{7}{9}$

III. Construct each of the following triangles:
(**Draw on the question sheet.** Draw with a pencil and don't erase the arcs).

1) Construct a triangle ABC such that: AB = 5 cm, BC = 4 cm and AC = 3.5 cm.
[3 points]

2) Construct a triangle TOM such that: TO = 6 cm, $\widehat{TOM} = 60^0$ and $\widehat{MTO} = 70^0$
[3 points]

IV. CAT is an isosceles triangle of main vertex A and such that $\widehat{CAT} = 70^0$. [6.5 points]

1) What is the measure of each of the angles $\widehat{TCA}$ and $\widehat{CTA}$?
2) Construct this triangle such that CT = 4 cm.
3) The bisector of the angle $\widehat{CAT}$, cuts [CT] in D.
Draw the bisector of angle $\widehat{CAT}$.

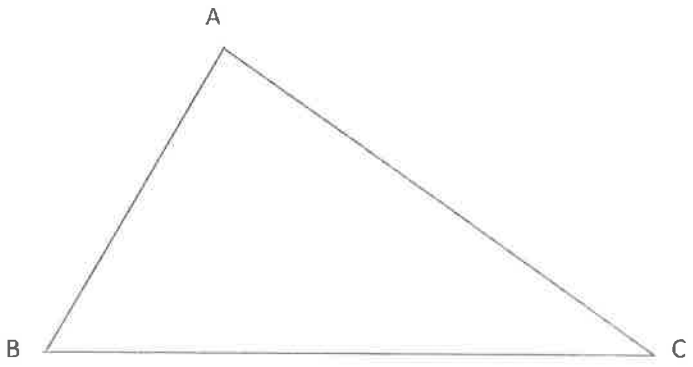
V. Solve each equation. [3 points]

1) $\frac{3}{13} + x = \frac{17}{13}$

2) $\frac{4}{7} - y = \frac{1}{2}$

3) $z + \frac{5}{30} = \frac{14}{15}$

VI. Draw the perpendicular bisectors in the following triangle then draw the circumscribed circle. What is the name of its center?
(Draw on the question sheet). [5 points]



(1 point for clearness of the exam)

Good job ☺

Correction of SE02/Maths *Date:Tuesday, Mar 18 th, 2025*

Grade 6C *Done by: Mr.M.Assaf*

I. 1. The sum of angles in a triangle is: 180^0 Answer is: B. 1 point

2. $\frac{3}{10}+\frac{3}{10}=\frac{3+3}{10}=\frac{6}{10}$ Answer is C. 1 point

3. If the distance from a point to the center of a circle is equal to the radius, it means: The point is at the circle. Answer is: B. 1 point

4. $\frac{5}{12}-\frac{1}{6}=\frac{5}{12}-\frac{1\times2}{6\times2}=\frac{5-2}{12}=\frac{3\div3}{12\div3}=\frac{1}{4}$. Answer is: A. 1 point

5. DEF is an equilateral triangle, then: DE = EF = DF. Answer is: C. 1 point

6. If the distance from center O of a circle to the line (D) is less than the radius, then: (D) cuts the circle in two distinct points. Answer is: C. 1 point

II. 1) $10-5\frac{7}{8}=4\frac{1}{8}$

. Rewrite the whole numbers: $10=9+1$

. Write 1 as a fraction: $10=9+\frac{8}{8}$ 0.5 point

. Add them together: $9+\frac{8}{8}-5\frac{7}{8}\rightarrow 9-5=4$ and $\frac{8}{8}-\frac{7}{8}=\frac{1}{8}$ 0.5 point

. Result: $4\frac{1}{8}$ 0.5 point

2) $7\frac{1}{3}+8\frac{3}{4}=16\frac{1}{12}$

. Add the whole numbers: $7+8=15$

. Add the fractions: $\frac{1}{3}+\frac{3}{4}=\frac{1\times4}{3\times4}+\frac{3\times3}{4\times3}=\frac{4}{12}+\frac{9}{12}=\frac{13}{12}$ 0.5 point

. Put them together: $7\frac{1}{3}+8\frac{3}{4}=15\frac{13}{12}=15+\frac{12}{12}+\frac{1}{12}=16\frac{1}{12}$ 1 point

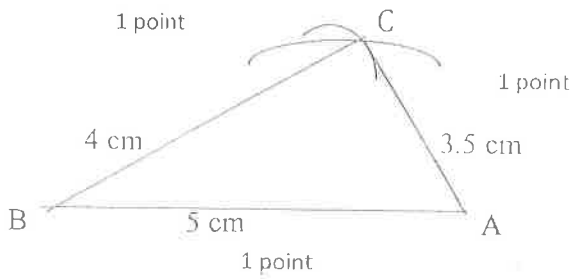
3) $30\frac{5}{3}-15\frac{7}{9}=15\frac{8}{9}$

. Rewrite the whole numbers: $29+1+\frac{5}{3}\rightarrow 29+\frac{3}{3}+\frac{5}{3}=29\frac{8}{3}$ 0.5 point

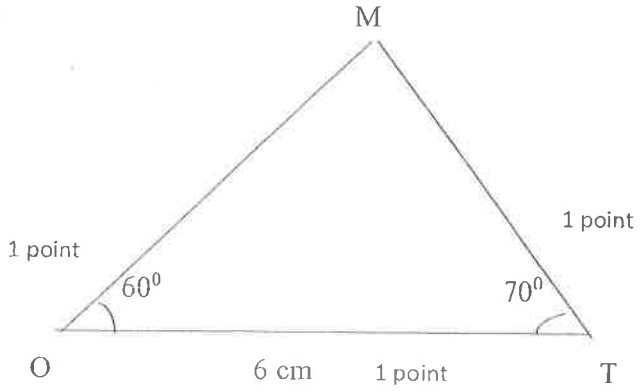
. Add them together: $29\frac{8}{3}-15\frac{7}{9}\rightarrow 29-15=14$ and $\frac{8}{3}-\frac{7}{9}=\frac{17}{9}$ 0.5 point

. Result: $14\frac{17}{9}=14+\frac{9}{9}+\frac{8}{9}=15\frac{8}{9}$ 0.5 point

III. 1) Figure.



2) Figure



IV. 1) $\widehat{CAT} + \widehat{TCA} + \widehat{CTA} = 180^0$ (sum of angles in a triangle) 1 point

$70^0 + \widehat{TCA} + \widehat{CTA} = 180^0 \rightarrow \widehat{TCA} + \widehat{CTA} = 180^0 - 70^0 = 110^0$

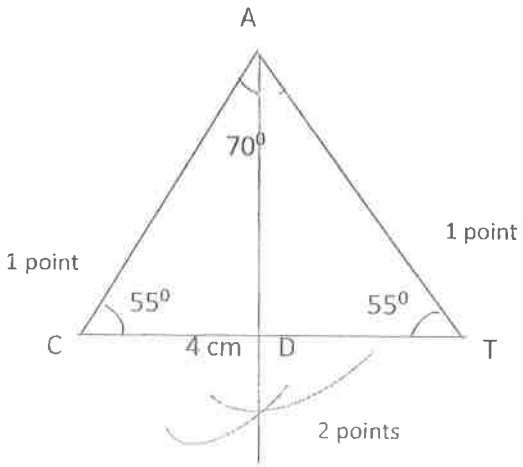
But $\widehat{TCA} = \widehat{CTA}$ (CAT is an isosceles triangle) 0.5 point

Then, $\widehat{TCA} + \widehat{TCA} = 110^0 \rightarrow 2\,\widehat{TCA} = 110^0 \rightarrow \widehat{TCA} = 55^0 = \widehat{CTA}$.

1 point

2) Figure.

3) Figure.



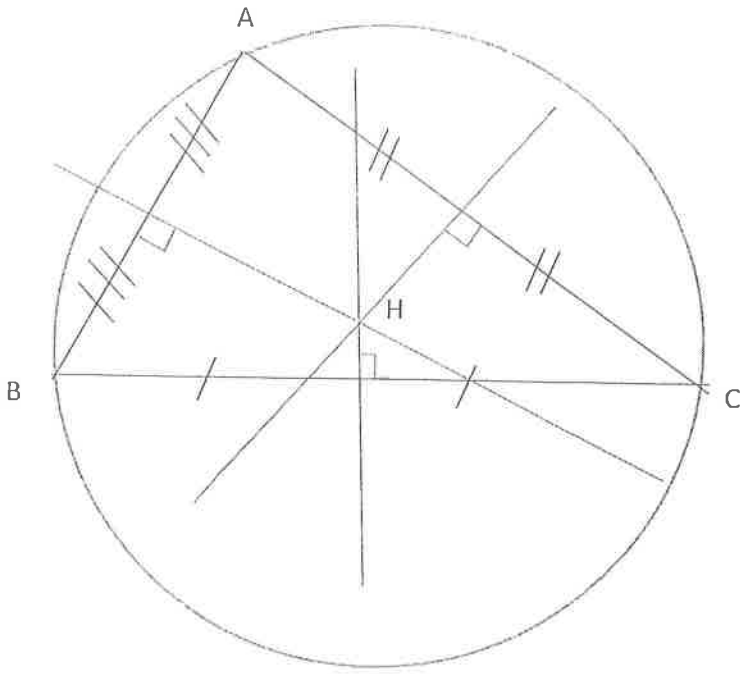
V.

1) $\frac{3}{13} + x = \frac{17}{13} \rightarrow x = \frac{17}{13} - \frac{3}{13} = \frac{17-3}{13} = \frac{14}{13}$ 1 point

2) $\frac{4}{7} - y = \frac{1}{2} \rightarrow y = \frac{4}{7} - \frac{1}{2} = \frac{4 \times 2}{7 \times 2} - \frac{1 \times 7}{2 \times 7} = \frac{8}{14} - \frac{7}{14} = \frac{1}{14}$ 1 point

3) $z + \frac{5}{30} = \frac{14}{15} \rightarrow z = \frac{14}{15} - \frac{5}{30} = \frac{14 \times 2}{15 \times 2} - \frac{5}{30} = \frac{28}{30} - \frac{5}{30} = \frac{23}{30}$ 1 point

VI.



4 points

Point H is the circumcenter (It is the center of the circle). 1 point