

Mathematics Test Grade: 6 (A, B, C) Date: Thursday, January 8 th , 2026 Duration : 1 period		/ 20
Name:	Coordinator's Signature:	Parent's Signature:

Question 1: Perform and simplify whenever possible.

(5 points)

a) $\frac{12}{70} \times \frac{35}{36} =$

b) $\frac{121}{50} \div \frac{11}{20} =$

c) $\left(\frac{4}{3} + \frac{10}{9}\right) \times \frac{63}{44} =$

d) $10\frac{3}{5} + 2\frac{6}{15} =$

e) $3\frac{5}{6} \div \left(\frac{60}{36} - \frac{7}{12}\right) =$

Question 2: Calculate showing the necessary steps.

(3 points)

$(+15) + (+3.5) =$	$(+55) + (-101) =$
$(-12) + (-19.3) =$	$(+47) - (+47) =$
$(+20) + (-13.6) =$	$(+87) - (-13) =$

Question 3: Compare using $<$, $>$ or $=$.

(3 points)

$$+42.3 \dots\dots\dots +42.198$$

$$-161.8 \dots\dots\dots 0$$

$$-40 \dots\dots\dots +20$$

$$-\frac{2}{3} \dots\dots\dots -\frac{5}{33}$$

$$+704 \dots\dots\dots +\frac{7040}{10}$$

$$0 \dots\dots\dots +453.9564$$

Question 4: Given the following $X'OX$ axis.

(5 points)



a) Give the abscissas of points K, M and Z.

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b) Place the points A, B, C and D on the axis such that:

- The abscissa of A is opposite to that of K
- The abscissa of B is 3 units to the left of Z
- The abscissa of C is 1 unit to the right of M
- The abscissa of D is $\text{Opp}(\text{opp}(+5))$

c) Give a pair of points that are symmetrical with respect to the origin.

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d) Find the length of ZK.

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e) Suppose that E is a point whose is an integer included between -4 and $+2$.

Write all the possible abscissas of point E.

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Question 5:

(4 points)

- a) Draw a segment $[EF]$ measuring 9 cm.
- b) Place M the midpoint of $[EF]$.
- c) Draw (d_1) the perpendicular bisector of $[ME]$ **(using the set-square).**
- d) Draw (d_2) the perpendicular bisector of $[MF]$ **(using the compass).**
- e) i. State the **property** of the perpendicular bisector of a segment.

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- ii. If H is a point on (d_1) such that $HM = 3cm$, what is the measure of HE?

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f) Rewrite the following statements correctly.

- i. For every segment, we can draw two perpendicular bisectors.
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- ii. To draw the perpendicular bisector of a segment using the compass, we draw 2 circles of radii equal to half of the segment.
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- g) What is the relative position of (d_1) with respect to (d_2) ? Justify.
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