JUNIOR SCHOOL

MATHEMATICS
GRADE 8 - 2024

JS2402
Time: 2 hours .

LEARNER'S NAME: _____

ASSESSMENT NUMBER:_____ DATE: _____

SCHOOL NAME: _____

INSTRUCTIONS TO THE LEARNER

Answer all the questions in the spaces provided.

For Teacher's Use Only.

SECTION A							
Question Number	1	2	3	4	5	6	7
Maximum Score	4	6	3	4	6	4	3
Learner's Score							

| SECTION B							
Question Number	8	9	10	11	12	13	Total
Maximum Score	3	3	4	4	4	2	50
Learner's Score							

GRAND TOTAL

TURN OVER

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SECTION A

1. a) To control the spread of a certain disease, the government produced 16008029 bottles of the vaccine. Write the number of bottles in words. **(2mks)**

   b) Write the number of bottles in standard form. **(2mks)**

2. Grade 8 learners were given a thermometer as shown below during their Integrated Science lesson.
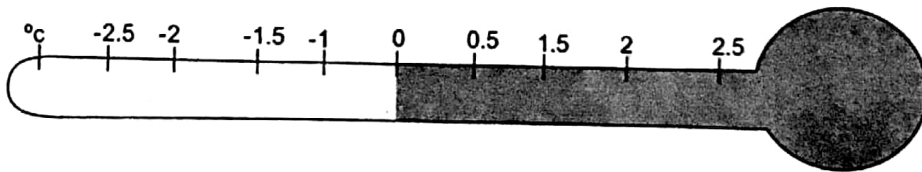
   a) Identify the integers from the thermometer. **(2mks)**

   b) Classify the integers as positive or negative. **(2mks)**

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c) The temperature of a vaccine was -2.0°c. The vaccine was exposed to heat until the temperature rose by +8°c. Determine the final thermometer reading. **(2mks)**

3. Adula was given the expression -5+1-2 to represent on a number line.

a) Use a number line to represent the expression. **(2mks)**

b) Determine the value of -5+1-2. **(1mk)**

4. In a Mathematics activity a teacher gave a group of learners a number card with the number line as shown.
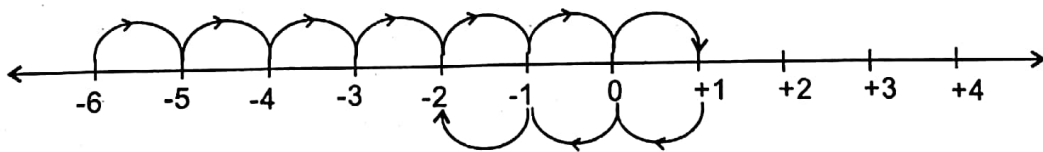
a) Write the expression that is represented on the number line above. **(2mks)**

b) Determine the value of the expression you have written in **(a)** above. **(2mks)**

5. After teaching addition and subtraction of fractions, Mr. Wekesa gave the learners $10\frac{1}{2} - 13\frac{5}{8} + 6\frac{1}{4}$ to work out the answer.

a) Determine the value of the expression. **(3mks)**

b) Maya covered $40\frac{2}{5}$ km of her journey by bus, $5\frac{1}{2}$ km by motorcycle and walked the rest. The total distance was $47\frac{3}{5}$ km. Calculate the distance she walked. **(3mks)**

6. Determine the value of;

a) $\frac{2}{3} \times \frac{4}{5} \div \frac{8}{15}$ **(2mks)**

b) $\frac{3}{8} - \frac{1}{4} \times \frac{4}{9} \div \frac{1}{3}$ **(2mks)**

7. Matano used $\frac{7}{8}$ litres of water during an Integrated Science lesson.

a) Express the amount of water that remained as a decimal. **(2mks)**

b) Express the decimal that remained in standard form. **(1mk)**

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SECTION B

8. Kimani and Awino are pawpaw sellers. Kimani sliced his pawpaws into twelfths and sold 60 pieces. Awino sliced hers into sixths and sold 42 pieces. Determine who sold more whole pawpaws. **(3mks)**

9. Njeru bought 8.4 litres of milk from a farmer. He put the milk into a cubical container measuring 60cm long by 40cm wide. Determine the height of milk in the container. **(3mks)**

MATHS GRADE 8

10. In Majengo school the assembly ground is circular in shape. The radius is 8.4m. A path of a

uniform width 1.4m surrounds the assembly ground as shown below.

8.4m

1.4m
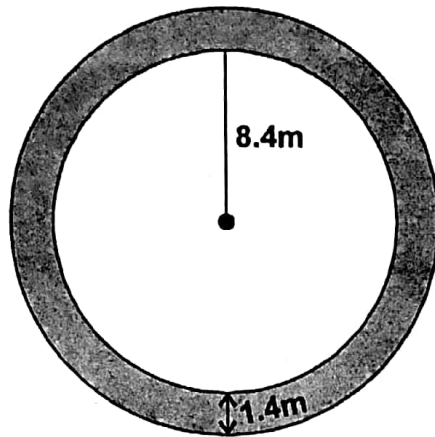
Calculate the area of the path. (Take $\pi = \frac{22}{7}$) (4mks)

11. Mbuva designed a window frame in the shape of a triangle. The vertices of the triangle were

marked P, Q and R. The triangle was such that angle PQR = 30° and PQ=QR=8cm.

a) Using a pair of compasses and a ruler only, construct a triangle to represent the window

frame. (3mks)

b) Measure angle QPR. **(1mk)**

12. **a)** The price of a cooker was reduced by sh 850 during the sale . This represented a 17% discount. Determine the selling price of the cooker. **(2mks)**

b) Determine the marked price of the cooker. **(2mks)**

13. Maria constructed a regular polygon whose interior angle is 108°. Determine the number of the sides of the polygon. **(2mks)**