COMPETENCE BASED CURRICULUM

JUNIOR SCHOOL

FORMATIVE ASSESSMENT

TERM ONE 2024

GRADE 8

Name……………………………………………………………….………………………………………………

Centre ………………………………………………………………………………….......................................

Assessment No. ……………………………………………………………… Stream………………………

Learner’s Sign……………………………………………………..… Date: ………………..…………………..

FOR EXAMINERS

 ASSESSMENT RUBRICS (for official use)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| %SCORE RANGE | Below 40 | 40-59 | 60-79 | 80-100 |
| PERFORMANCE LEVEL | Below expectation | Approaching expectations | Meeting expectations  | Exceeding expectations |
|  | 1 | 2 | 3 | 4 |

 **MATHEMATICS**

**Answer all questions in this paper.**

1. Write in words 27707807. (1mk)

2. A number n is such that when it is divided by 27, 30 or 45, the remainder is 3. Find the smallest value of n. (3mks)

3. Use the number line to perform the following operations.

a) (-10)-(-3) (1mk)

b) (+1)-(-8) (1mk)

c) (-3)+(-4) (1mk)

4. If x=-2, y=-6 and z=4, find the values of:

a)2y-3x+z (2mk)

b)$\frac{4xy}{z}$ (2mks)

5. Solve $\frac{2}{5} of\left(6\frac{2}{5}-\frac{1}{2}\left(1\frac{2}{3}+\frac{1}{3}\right)×\frac{1}{5}\right)$

 (3mks)

6. A farmer has 165 orange trees on his farm. 38 trees have 97 oranges each, 79 trees have 176 oranges each, the rest have 59 oranges each. How many oranges are there altogether? (3mks)

7. Express $\frac{x+1}{2}-\frac{x-1}{3}$ as a single fraction (3mks)

8. Given that 1.$\dot{0}\dot{5}$ = 1$ \frac{a}{b}$. Find the value of a and b (3mks)

9. On a certain day, a student measured the temperature inside a deep freezer and found that it was -3$°c $ while the room temperature was 24$°c$. What was the temperature difference between the room and the deep freezer? (2mks)

10. Using tables find the:

a) Square of 4.973 (2mks)

b) Square root of 0.146 (2mks)

11. An integer p is two-thirds of another and their difference is 10. Find the two integers. (3mks)

12. Check whether 7544 is divisible by 6 (3mks)

13. Write the following in standard form:

a) 0.00121

b) 4521.021

14. Evaluate $\frac{0.17×1.05+0.32}{4.5×0.08-0.089}$ correct to three decimal places. (4mks)

15. Find the square root of 1764 using factor method. (3mks)

16. Remove the brackets and simplify.

$2b+a\left⌈3-2(a-5)\right⌉$ (3mks)

17. Three bells ring at intervals of 6minutes, 5minutes and 8minutes, if they rang first at 9.15 am, find when they will ring for

THE END