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LEVEL 3**Demonstrate Numeracy Skills****November/December 202**

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**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

WRITTEN ASSESSMENT

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Time: 2 HOURS**INSTRUCTIONS TO CANDIDATE**

1. This paper consists of two sections; **A** and **B**
2. Answer **ALL** the questions as guided in each section
3. Marks for each question are as indicated in the brackets
4. You with a separate answer booklet to answer the questions
5. Do not write in this question paper

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This paper consists of SEVEN (7) printed pages

Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A (20 MARKS)

Answer ALL the questions in this section. Each question carries one mark

Match the descriptions in A with the correct statements in Column B.

1.	Numerical information is recorded, and results are communicated using symbolism.	A.	Categorizing items like circles, squares, and triangles based on their attributes.
2.	Recognizes the comparative relationship between units of measurement.	B.	Finding data points or trends in a bar chart, tables.
3.	Gives simple oral directions to locate objects.	C.	Providing straightforward instructions, such as "go straight" or "turn left," to guide someone to a location.
4.	Groups common objects based on their shape, size, color, and features.	D.	Comparing units like inches and centimeters, or pounds and kilograms, and explaining their relationships.
5.	Locates specific information in highly familiar graphs and charts.	E.	Writing down numbers, amounts, or results in a simplified form using symbols or informal terms.

- Rounding of Ksh 465,648 to three significant figure is Ksh 466. True or False
- The conversion of 4hours into seconds is 14400. True or False
- The perimeter of a rectangle whose dimensions are 15cm by 10cm is 25cm. True or False
- The place value of 4 in the 45,302 is ten thousands. True or False
- A triangle is two dimensional figure. True or False
- A triangle has a base of 8 cm and a height of 4 cm. Determine the area of the triangle.
 - 12 cm²
 - 16 cm²
 - 20 cm²
 - 24 cm²

12. A cylinder has a diameter of 14 cm, and a height of 0.05m. Find its volume.

- A. 220 cm³
- B. 770 cm³
- C. 7.70 cm³
- D. 70 cm³

13. The mass of an object is measured as 2.567 kilograms. Convert this mass to grams.

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- A. 2567g
 - B. 256.7g
 - C. 25670g
 - D. 2.567g

14. Multiply 8.505cm by 70mm and round your answer to two decimal place.

- A. 59.535cm
- B. 59.54cm
- C. 60cm
- D. 5953cm

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15. Round the number 74.68 to the nearest whole number

- A. 74
- B. 75
- C. 74.7
- D. 74.68

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16. Identify a mixed fraction from the following types of fractions.

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- A. $\frac{9}{4}$
 - B. $\frac{4}{5}$
 - C. $2\frac{1}{2}$
 - D. $\frac{1}{7}$

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17. Table 1 represents yearly sales data of particular goods in a shop. Identify the year that had the highest sales.

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Year	Sales (Ksh)
2020	20, 000
2021	25, 000
2022	30, 000
2023	28, 000

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- A. 2020
- B. 2021
- C. 2022
- D. 2023

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18. A motorist took 160 minutes to drive from town A to B. If he had commenced his journey at 11:25AM, when did he arrive in town B.

- A. 13:65PM
- B. 2:05PM

C. 1:25AM

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- D. 12:85PM

19. The dimensions of Juma's plot is square in shape measuring 22.85m in length and 125.675m in width. Calculate its area to one decimal place

- A. 2,871.7m²
- B. 2,872.0m²

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- C. 2900m

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- D. 2,871.67m²

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20. Evaluate; $1\frac{1}{2} + 3\frac{1}{4}$

- A. $4\frac{2}{6}$
- B. $4\frac{3}{4}$
- C. $4\frac{1}{2}$

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SECTION B (30 MARKS)

Attempt ALL the questions in this section

21. There are seven basic of measurement. State the SI units of the following three quantities.

(3 Marks)

(i) Mass

(ii) Temperature

(iii) Length

22. Ratios, fractions and percentages have certain relationships. If 3: b is equivalent to b: 12, find the value of b.

(3 Marks)

23. Figure 1 is a curve showing the plot of the equation $y = 2x^2 + x - 3$. Record the values of x and y intersecting the x-axis and y-axis respectively.

(3 Marks)

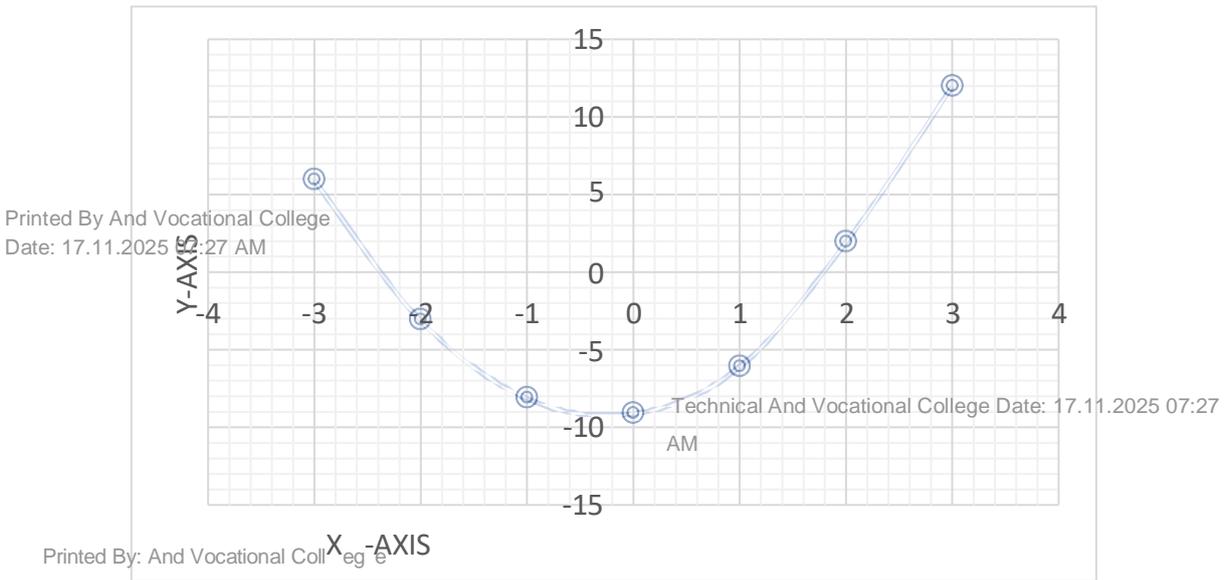


Figure 1

24. Table 1 is a representation of the base area, height and volume of regular prism. Complete the missing values in the table.

(3 Marks)

Table 1

Base Area	Height	Volume
	9	738
35		980
128	45	

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25. Halima has a saving of Ksh 100, 000. She spends Ksh 60,000 to buy stock for her business. She spends another Ksh 23,000 to pay rent and Ksh 3,300 to cater for the business license. **Calculating balance.** (3 Marks)

26. Figure 2 shows the number of hours of sunshine on a day across cities around Kenya represented in a pictogram. Find the number of sunshine hours that was there in Mombasa than Eldoret. (3 Marks)

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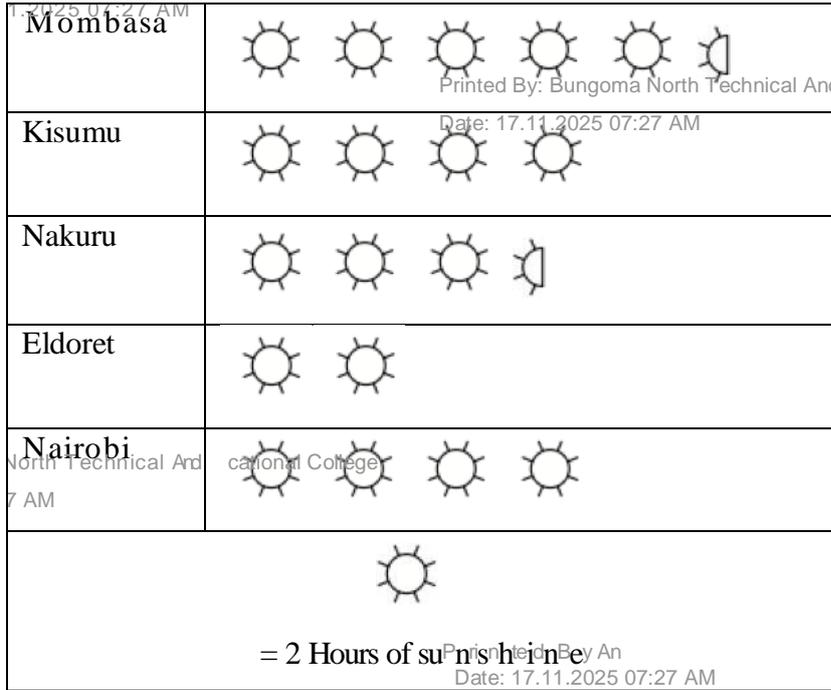


Figure 2

27. Figure 3 shows a 2D shape comprising of a rectangle part and a semi-circular. The area of the shaded part is $21.8cm^2$. calculate the radius of the semi-circle. (4 Marks)

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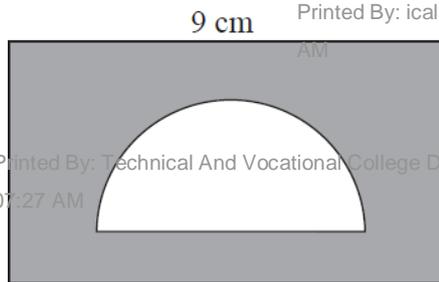


Figure 3

28. Table 2 shows profit or loss made from sales by three business persons. Fill in the missing values in the table if all the businesses made profit in Ksh. (3 Marks)

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	Buying price	Selling price	Profit
Cole	43, 500		10, 300
Rich	70, 500		
Buck		62, 400	14, 200

29. Calculation involving time comprises years, months, weeks, days, hours, minutes and

seconds. Find out the number of minutes that exit in 7 hours 30 seconds. (3 Marks)

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30. Use a calculator to evaluate the expression $\frac{27}{1.5} \times 0.2 - 0.06$ (2 Marks)

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