

#CREATIVE PRINTERS

DIAGNOSTIC EXERCISE 1 PRIMARY FIVE MATHEMATICS

SECTION A: 40 MARKS (2 marks each)

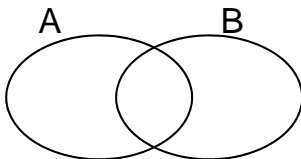
1. Subtract:
$$\begin{array}{r} 57 \\ -32 \\ \hline \end{array}$$


2. Write XXIX in Hindu Arabic numerals.

3. Find the missing number.
 $\square - 8 = 4$

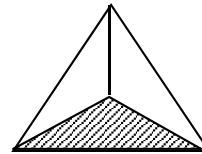
4. Add: $\frac{5}{12} + \frac{3}{12}$

5. Shade AUB



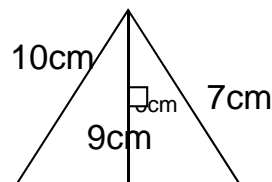
6. Given that  represents 7 pupils in a class. Draw pictures to represent 56 pupils.

7. Name the shape below.



8. Find the next two numbers in the sequence.
0, 4, 8, 12, ____, ____.

9. Find the total distance around the figure below.

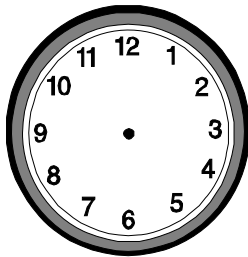


10. Complete correctly:

$$3 + 3 + 3 + 3 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

11. The cost of one loaf of bread is sh. 4000. Find the cost of 3 similar loaves of bread.

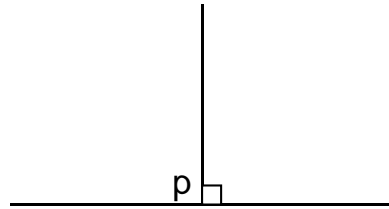
12. Show 9:50 on a clock face below.



13. Set $M = \{x, y, z, w, v\}$ and Set $N = \{r, s, t, u\}$.
What is $M \cap N$

14. List down the first six odd numbers.

15. Find the value of p .



16. Represent 19 using tallies.

17. Add: $\begin{array}{r} 296 \text{ litres} \\ + 559 \text{ litres} \\ \hline \end{array}$

18. **Write in figures:**
One thousand one hundred eleven

19. Change $\frac{19}{4}$ to a mixed number.

20. Divide 246 text books among 3 classes

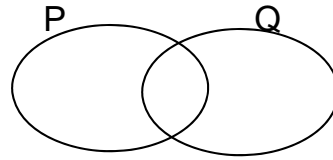
SECTION B: (60 MARKS)

21a) Arrange the fractions below starting with the biggest.

$$\frac{1}{2}, \frac{1}{4}, \frac{1}{3}, \frac{1}{6} \quad (2 \text{ marks})$$

22. Set $P = \{0, 1, 2, 3, 4\}$ and
 $Q = \{2, 4, 6, 8\}$

(a) Show the members of P and Q on the diagram below. (3 marks)



23. Write the number

(1 mark)



are in $P \cap Q$?
 (1 mark)

(b) Complete correctly. (2 marks)

$$1\frac{1}{3} = 1 + \frac{1}{3} = \underline{\quad} + \underline{\quad} = \underline{\quad}$$

23a) Using a ruler, a pencil and a pair of compasses only construct an equilateral triangle of side 5cm.
 (3 marks)

(c) How many half litre mugs can be obtained from 4 litre containers?
 (2 marks)

- (b) Draw these shapes. (1 mark each)
 (i) Cube (ii) cylinder

24. Fill in the missing number.
 (1 mark each)

(a) - 15 = 36

25. Akello did exams and got the following marks.

SST	Maths	English	Science
70	95	84	70

(a) How many marks did she score in Maths?
 (1 mark)

(b) What is the difference between the highest and the lowest mark?
 (2 marks)

(b) $42 \div \boxed{}$



mark.
 (2 marks)

(c) $7 \times \boxed{} = 35$

(d) $15 + \boxed{} = 18$

26. In a class of 48 pupils, $\frac{1}{4}$ of them are boys and the rest are girls.

(a) How many boys are in the class?
 (2 marks)

(b) Find the number of girls in that class.
 (2 marks)

- (c) Find the fraction for girls in the class. (1 mark)

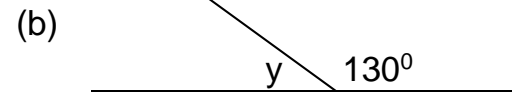
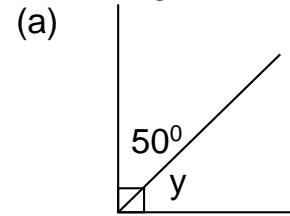
27. Study the shopping bill below and answer the questions that follow.

- (a) Complete the table below. (Show the working) (1 mark each)

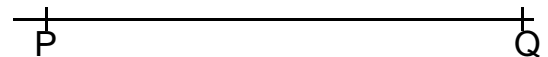
Item	Cost of each item	Total cost
1 tin of blue band	Sh. 2500	Shs. _____
2kg of rice	Sh. 2000	Shs. _____
3 loaves of bread	Sh. 3000	Shs. _____
A book	Sh. 1000	Shs. _____

- (b) Find the total expenditure. (2 marks)

28. Find the value of the unknown angles. (2 marks each)



- (c) Measure the line below. (1 mark)



- 29a) Round off 654 to the nearest tens. (1 mark)

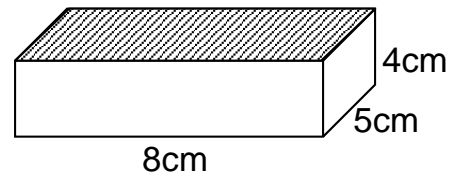
- (b) What number has been expanded to get; (2 marks)
 $(9 \times 1000) + (6 \times 100) + (5 \times 10) + (2 \times 1)$

- (c) Find the difference between the values of 6 and 4 in the number below.
 6 4 8 3 (2 marks)

30. Complete the table below. (1 mark each)

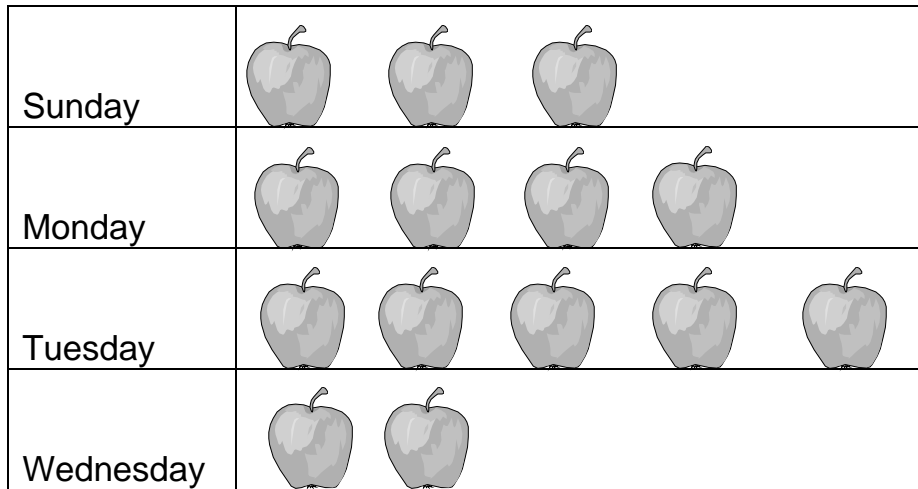
Years	2	1	3	5	___
Months	___	12	___	___	48


31. **Study the figure below and answer questions that follow.**



- (a) Name the figure above. (1 mark)
- (b) Find the number of; (1 mark)
 (i) vertices
 (ii) faces
 (iii) edges
- (c) Work out the area of the shaded part. (2 marks)

32. **The graph below shows the number of mangoes sold in the first 4 days of the week.**



Scale:  represents 10 mangoes.

- (a) How many mangoes were sold on Monday? (1 mark)
- (b) Which day was the biggest number of mangoes sold? (1 mark)
- (c) What is the difference between the biggest and the smallest number of mangoes sold? (1 mark)
- (d) If each mango was sold at sh. 1500, how much money was earned on Monday? (2 marks)

Good Luck