DIVINE EDUCATION CENTRE

**MID TERM 1 EXAMINATION 2024**

MATHEMATICS – P.6

***Time Allowed: 2hrs 30min***

**Name:……………………………………………………………………………………**

**Stream: ……………………………………….**

|  |  |  |
| --- | --- | --- |
| **FOR EXAMINER’S USE ONLY** | | |
| **Qn. No** | **MARK** | **SIGN** |
| **1 – 10** |  |  |
| **11 – 20** |  |  |
| **21 – 22** |  |  |
| **23 – 24** |  |  |
| **25 - 26** |  |  |
| **27- 28** |  |  |
| **29 - 30** |  |  |
| **31 – 32** |  |  |
| **TOTAL** |  |  |

**Read the following instructions carefully:**

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball

point pen or ink. Diagrams should be drawn in pencil.

1. Unnecessary alteration of work may lead to loss of marks.
2. Any handwriting that cannot be easily read may lead to loss of marks.
3. Do **not** fill anything in the boxes indicated for Examiner’s use only.

***Turn over***

**SECTION A: 40 MARKS**

*Answer* ***all*** *questions in this section.*

*Questions* ***1*** *to* ***20*** *carry two marks each*

1. Workout: 32 + 45
2. Simplify: -6 - 4
3. Write “Four thousand, nineteen” in figures.
4. Given that S = {w, p, m} list all subsets of set S
5. Round off 5.69 to the nearest tenth.

1. Find the complement of 300
2. Change 240grammes to kilogrammes

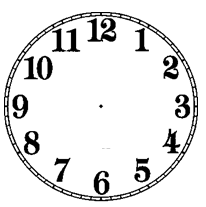
1. Solve: P = 4

3

1. Using a pair of compasses, ruler and a very sharp pencil only, construct an angle 1200
2. The cost of 3 pens is sh. 2100. How many similar pens will John buy with sh. 3,500?
3. The shaded part represents the fraction of a cake which Peter ate in the evening. What fraction of the cake was not eaten?



1. List the prime factors of 18
2. Change 210minutes to hours.
3. Subtract 312five – 104five
4. What evening time is shown on the clock face below?



1. Write (4 x 101) + (2 x 10-1) + (5 x 10-2) in short form.
2. Simplify: 3m – 2b + 2m + 5b
3. Double the next number in the sequence;

2, 3, 5, 7, \_\_\_\_\_\_

1. Sandra bought a bottle of 1.5litre mineral water and served it to visitors using half litre cups. How many cups did she serve to the visitors?
2. A wire was carefully curved to form the shape below.

Find the total length of the wire used to form the shape.

12m

8m

**SECTION B: 60 MARKS**

1. Given the cards 3 0 7
2. Write all the 3-digit numbers that can be formed using all the above cards

(04marks)

1. Find the difference between the largest and the smallest 3-digit number.

(02marks)

1. Use the venn diagram below to answer the questions that follow.

PFk PF24 (a) Find the value of

32 21 22 (i) k (01mark)

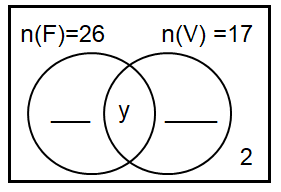
31 y

(ii) y (02marks)

(b)Find the LCM of PFk and PF24 (02marks)

1. In a class of 40 pupils, 26 enjoy football (F) , 17 enjoy volleyball (V) , y enjoy both football and volley ball while 2 do not enjoy any of the two games.
2. Complete the venn diagram below (02marks)

n (Ʃ) = 40



1. How many pupils enjoy football only? (03marks)

1. Solve: 2 = 8 (02marks)

3

(b)Find the reciprocal of 2 ½ (02marks)

(c)Change to a decimal number. (01mark)

1. A business woman bout a basket of 300 tomatoes at sh. 65,000. She sold all the tomatoes in heaps of 6 tomatoes each at sh. 2,000 per heap.

How much profit did she get after selling all the tomatoes? (05marks)

1. In a P.6 class of 42 pupils, of them are day scholars and the rest are in boarding section.
2. How many pupils are in boarding section? (03marks)

1. How many more pupils are in boarding section than day section?

(02marks)

1. Use >, < or = to complete the following statements. (1mark@
2. 2 \_\_\_\_\_\_\_ 6

3 9

1. 2 x 12 \_\_\_\_\_\_2 + 12
2. -5 \_\_\_\_\_\_\_ -2

1. 4kg \_\_\_\_\_\_400g.
2. Given that a= 2, b = 3 and c = ab. Find the value of;
3. 3b + c (02marks)

1. 6a + b (02marks)

c

1. b2 - c (02marks)
2. (a)Find the value of 2 in 124six (02marks)

(b)Change 16ten to base five (02marks)

(c)Workout: 1 1 0two (02marks)

- 1 1two

1. Martin went for shopping and bought the following items;

* 2kg of maize flour at sh. 2700 per kg.
* 1 ½ litre of milk at sh. 2000 @ litre.
* 500grammes of sugar at sh.4800 per kilogram.

1. Calculate his total expenditure (04marks)
2. If he went with sh.20,000, find his balance (01mark)
3. Find the size of the unknown angles.

(02marks)

3p 600

(b) (02marks)

40°

1200 m

1. Follow the instructions below carefully.
2. Using a pair of compasses, ruler and a pencil; (03marks)
3. Draw a line segment PR = 5cm
4. Adjust your pair of compasses to a radius of 5cm and stand at point P and

construct an arc above and below line PR

1. Using the same radius, stand at point R and construct an arc above and below line PR.
2. Name the intersecting point above as Q and that below as S
3. Join point P to Q, Q to R, R to S and S to P.

1. Which special name is given to the figure PQR? (01mark)

**\*\*END\*\***