



DIVINE EDUCATION CENTRE  
**MID-TERM 2 EXAMINATION 2023**  
**MATHEMATICS – P.6**

***Time Allowed: 2Hrs 30MIN***

Name:.....

Stream:.....

Read the following instructions carefully:

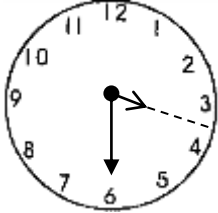
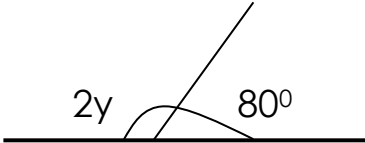
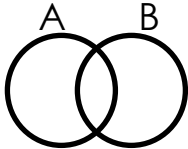
1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiner's use only.

**FOR EXAMINER'S USE ONLY**

Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 24		
25 – 28		
29 - 32		
TOTAL		

***Turn over***

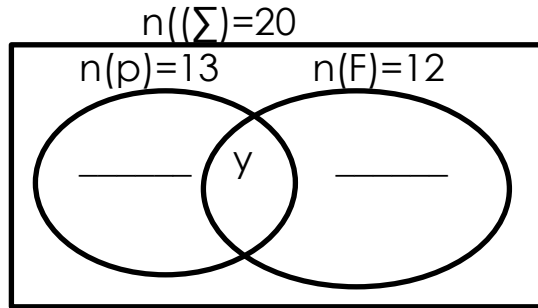
**SECTION A: (40 MARKS)**

1.	Add $495 + 4$	2.	Increase 400 by 20%.
3.	Given that set $P = \{x, y, z\}$ . List all the subsets of P.	4.	Expand 468 using powers of 10.
5.	What morning time is shown by the clock face below? 	6.	Which integer is 5 steps on the left of +2?
7.	Find the value of y in degrees. 	8.	Convert 2:40pm to 24 hour clock system.
9.	Add: $\begin{array}{r} 321_{\text{five}} \\ + 12_{\text{five}} \\ \hline \end{array}$ _____	10.	Shade $(A \cap B)'$ 

11.	Write 909009 in words.	12.	What is the average of 2, 4, 6 and 8?
13.	Work out $3 - 4 \equiv \text{_____} \pmod{5}$	14.	How many quarter litre bottles are in a 10 litre jerrycan?
15.	Square the next number in sequence. 2, 3, 5, 7, _____	16.	The cost of 4 books is sh.1 600, what is the cost of two similar books?
17.	A basket has 7 ripe mangoes and 5 raw mangoes. What is the probability of picking a raw mango at random?	18.	Draw tallies to represent 18 balls.
19.	Solve: $k \div 3 = 12$	20.	How many days are there in 5 weeks?

**SECTION B:60MARKS**

21. James' birthday party was attended by 20 guests, 13 of them took pepsi (P) 12 took Fanta(F) and Y guests took both drinks. a) Complete the venn diagram below. **(02marks)**

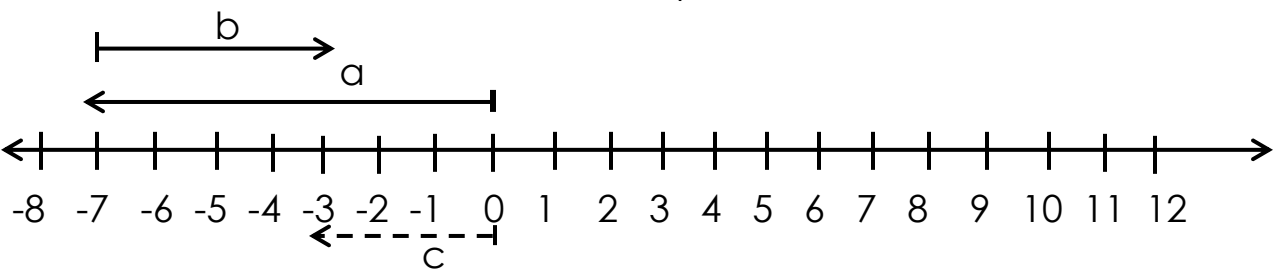


- b) Find the number of guests who took both kinds of drinks. **(02 marks)**

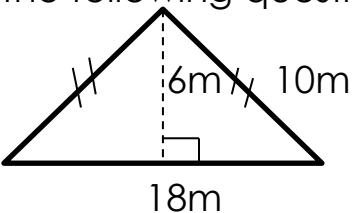
- c) What is the probability of picking a guest who took only Fanta to give the speech? **(02marks)**

22. a) Change 0.0037 in scientific notation. **(02marks)**

- b) Round off 37 to the nearest tens using a number line. **(02marks)**

23.	<p>a) Using a ruler, pencil and a pair of compasses only, construct a regular hexagon in a circle of radius 3cm.</p> <p style="text-align: right;"><b>(03marks)</b></p>
	<p>b) Find the perimeter of the figure.</p> <p style="text-align: right;"><b>( 02 marks)</b></p>
24.	<p>Use the number line below to answer questions that follow.</p>  <p>a) Name the integers represented by:</p> <p style="text-align: right;"><b>(01 mark each)</b></p> <p>a =</p> <p>b =</p> <p>c =</p>
	<p>b) Write a mathematical sentence for the above number line.</p> <p style="text-align: right;"><b>(02 marks)</b></p>

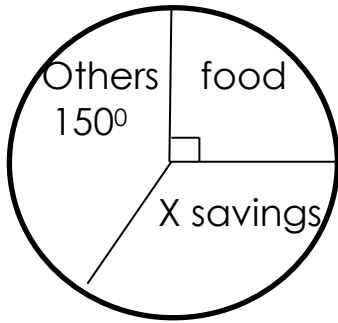
25.	<p>Given that <math>y=3</math>, <math>m=4</math> and <math>n=6</math> Evaluate: i) <math>3m + n</math> <b>(02marks)</b></p>		<p>ii) <math>\frac{Ymn}{m} + Y</math> <b>(03marks)</b></p>
26.	<p>In a class of 45 pupils <math>\frac{2}{3}</math> are girls and the rest are boys. a) What is the fraction for boys? <b>(01mark)</b></p>		<p>b) How many girls are in the class? <b>(02 marks)</b></p>
	<p>c) How many more girls than boys are there in the class? <b>(02marks)</b></p>		
27.	<p>Given the digits below; 5, 3 and 7. a) Form all the 3 digit numbers that can be got using the above digits. <b>(03marks)</b></p>		<p>b) Find the sum of the largest and smallest number formed using the above digits. <b>(02marks)</b></p>

28.	<p>Mr. Okello went to a super market and bought the following items.</p> <ul style="list-style-type: none"> <li>- <math>2\frac{1}{2}</math> kg of sugar at sh.2000 per kg.</li> <li>- 3 kg of meat at sh.6000 each kg</li> <li>- 2 packets of salt for sh.1200</li> </ul> <p>a) How much did he spend altogether? <span style="float: right;"><b>(03 marks)</b></span></p>
	<p>b) If he had a fifty thousand shilling note, what was his change? <span style="float: right;"><b>(02marks)</b></span></p>
29.	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Use the figure below to answer the following questions.</p>  <p style="text-align: center;">18m</p> <p>a) Find its area. <span style="float: right;"><b>(02 marks)</b></span></p> </div> <div style="width: 45%;"> <p>b) Work out its perimeter. <span style="float: right;"><b>(02 marks)</b></span></p> </div> </div>

30.	Below is a 3 dimensional figure. Use it to answer questions that follow. a) How many vertices does the figure have? <b>(01 mark)</b>		
	b) Find its total surface area. <b>(03marks)</b>		c) Calculate the volume of the above figure. <b>(02marks)</b>
31.	A teacher wrote the number 48369 on the chalkboard. a) What is the place value of 3? <b>(01mark)</b>		b) Find the difference of the value of 6 and the value of 8 in the number. <b>(03marks)</b>
	c) Write the given number in words. <b>(01 mark)</b>		



32. The pie-chart below shows how Mr. Mulongo spends his weekly allowance of shs.36,000.



a) Find the value of X **(02 marks)**

b) How much money does he spend on other items?  
**(03marks)**

**END**