MARKING GUIDES MATHEMATICS PLE 2023-2024

Do rough work below each question	Show the working steps and final answer in this column
1 Write the following number in words: 12,056,418 (2 marks)	**12,056,418: Twelve million, fifty-six thousand, four hundred eighteen.**
2) Given the following digit numbers: 8; 0; 5; 7; 2 a) Write the biggest whole number formed by these digits. (1 mark) b) Write the smallest number formed by these digits. (1mark)	**a)87520** **b)20578**
3) Subtract vertically 4,325,678-2,478,529 = (2 marks)	4,325,648 -2,478,529 ———— 1,847,149
4) Convert 50,000 Frw into USD if 1USD is equal to 1,000 Frw (2 marks)	50000|1000 　　　50USD

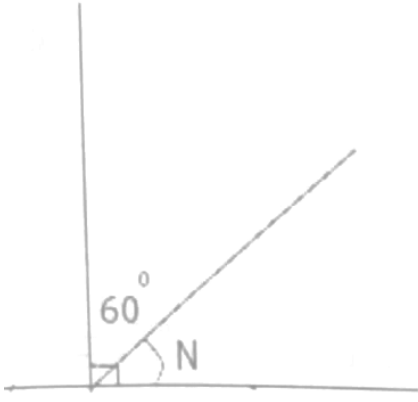| 5) Define the term "scale" **(2 marks)**	**Scale: is a set of levels or number which are used in a particular system of measuring things**
6) Round off 5.297 to the nearest hundredths. **(2 marks)**	**5.297=5.30**
7) Use <, > or = to compare the following: **(2 marks)** a) $\frac{1}{6}$ ☐ 0.32 b) 145,700 ☐ 1457×100	**a)** $\frac{1}{6}$ | < | **0.32** **b) 145,700** | = | 1457×100
8) Workout 15a+20ca=……………ca **(2 marks)**	**150= 1500 ca** **20 ca = + 20 ca** ———— **1520ca**
9) Convert 0.95 into fraction and simplify the answer completely. **(2 marks)**	$\frac{95}{100}=\frac{19}{20}$

10) Simplify completely $a^3b^2a^4bc =$ **(2 marks)**	$a^3b^2a^4bc = a^7b^3c$
11) Find the missing two fractions in the sequence $\frac{1}{3};\frac{1}{6};\frac{1}{12};....;....$ **(2 marks)**	$\frac{1}{24};\frac{1}{48}$

12) Work out.
    a) (-12)x(-10)=   **(1 mark)**
    b) (-20)+(+4)=   **(1 mark)**
	a) (-12)x(-10)= +120
	b) -20+4=-16

13) Choose one letter which corresponds with the correct definition of the term "Probability". **(2 marks)** a) Probability is the chance that an event will less likely happen. b) Probability is the chance that something will happen. c) Probability means that an event will not happen.	**a) Probability is the chance that an event will less likely happen.**
14) Work out the following: 50 kg +23 hg=..........dg **(2 marks)**	50kg= 500,000dg 23kg =+23000dg 523,000dg

15) Complete the following sentences with discrete data" or "quantitative data". a) Data with numerical values is called ……………………**(1 mark)** b) The values for numerical data can be whole numbers only. Such data is ………………………. (**1 mark)**	a) **Quantitative data** b) **discrete data**
16) Share equally 15,000 books among 5 schools. How many books will each school get? **(2 marks)**	15000:5=3000 books
17) Fill in the missing number: $1\frac{3}{4}$ of 360 is equal to .... **(2 marks**)	$\frac{7}{4} \times 360 = 630$ of 360
18) Find the next two numbers in the following sequence 4; 7; 10; ... **(2 marks)**	4; 7; 10; **13**

19) Use quick multiplication to calculate the following:
    56x11=
                      (2 marks)
	(56×10)+56=560
	       + 56
	        616

20) Find the value of angle N, if N is the Complementary angle of 60°, **(2 marks)**	N=90^0-60°=30°

60° N	
21) How many poles are required to make a circular fence of 45 m if the poles are 5 m apart? **(2 marks)**	$\text{Number of poles} = \left[\dfrac{\text{Circumference}}{\text{Distance between poles}} \right] + 1$ $\text{Number of poles} = \left[\dfrac{45}{5} \right] + 1$ Number of poles = 9+1=10 Poles
22) If a test started at 8:45 p.m. and ended at 10:45 p.m. How long did the test take? **(2 marks)**	22:45 -20:45 ‾‾‾‾ 2hrs
23) Workout $\dfrac{3}{4} + \dfrac{1}{2}$ **(2 marks)**	$\dfrac{3+2}{4} = \dfrac{5}{4} = 1\dfrac{1}{4}$
24) Find the perimeter of a rectangular garden whose length and width are 15m and 10m respectively **(2 marks)**	$P = (L + W) \times 2 =$ $(15m + 10m) \times 2 = 25m \times 2 = 50m$
25) Exterior angle of a regular polygon is 720, Calculate its interior angle. (2 marks)	Interior angle = 180°-72° =1080
26) Find the Highest Common Factor of numbers 30, 36 and 48. **(3 marks)**	HCD=2x3=6
27) Find the value of x in the equation 3(x+1)=9 **(3 marks)**	3x+3=9 3X=9-3 3x=6 x=2
28) If $\dfrac{3}{4}$ of the pupils in P6 class are girls, find the number of boys who are in class if there are 48 pupils. **(3 marks)**	$\text{Boys} = 48 \times \dfrac{3}{4} = 36 \text{ pupils}$

29) A circular garden has a radius of 15 cm. Find its area ($\pi = 3.14$). **(3 marks)**	$A = R \times R \times \pi = 15\text{cm} \times 15\text{cm} \times 3.14$ $= 706.50\text{cm}^2$
30) Find the volume of a cube whose sides are 7dm. Give the answer in cm³ **(3 marks)**	$U = 7\text{dm} \times 7\text{dm} \times 7\text{dm}$ $= 343\text{dm}^3 = 343000\text{cm}^3$

31) Mugabo and Kaliza shared 120,000 Frw in the ratio of 3:5 a) Find their total ratio. **(1 mark)** b) How much money did Mugabo get? **(2 marks)** c) How much money did Kaliza get? **(2 marks)** d) How much more money did Kaliza get than Mugabo **(2 marks)**	a) 3+5=8 b) Mugabo= $\dfrac{3 \times 120000}{8} = 45000Frw$ c) Kaliza $= \dfrac{120000 \times 5}{8} = 75000Frw$ d) Diff=75000-45000=25000frw
32) A man deposited 100,000 Frw on a fixed saving account that earns 3% simple interest monthly. a) Find the interest earned after 5 years. **(4 marks)** b) Calculate the total amount on his account **(3 marks)**	a) $I = \dfrac{1000000 \times 3 \times 5}{100 \times 12} = 15000Frw$ b) Amount=100000+115000FRW
33) Mukamana went to the market and bought the following items: meat, rice and oil. a) Complete the table below. (6 marks)	a)

33) a) (problem table)

Items	Price of each	Total expenses
4kg of meat	4,500frw/kg	……………….
67kg of rice	……..../kg	93, 800frw
……..litres of oil	2,500frw/litre	7,500frw
Total expenditure		…………'

33) a) (answer table)

Items	Price of each	Total expenses
4kg of meat	4,500frw/kg	**4.800.0**
67kg of rice	**1400**.../kg	93, 800frw
3litres of oil	2,500frw/litre	7,500frw
Total expenditure		**44.9300F**

b) If she had 150,000Frw. How much did she save? (1 mark)

b) 150000-119300f = 30700 F

35) Study the diagram below which shows marks scored by learners in French test out of 100.	a) 7 learners b) 2 learners c) munezero and Kruijena d) 3 learners e) Suzana f) karoli g) 80-10=70 marks
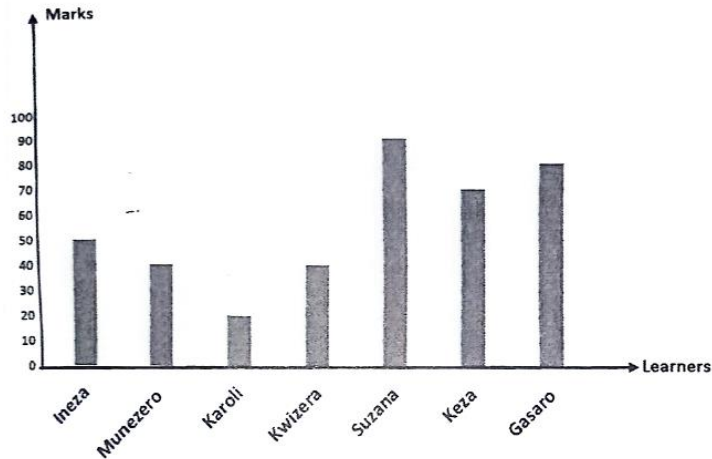
a) How many learners did the test?   **(1 mark)**
b) How many learners got the same marks? **(1 mark)**
c) Write the names of learners who got the same marks. **(1 mark)**
d) How many learners got less than 50% marks? **(1 mark)**
e) Name the learner who got the highest marks? **(1 mark)**
f) Name the learner who got the lowest marks? **(1 mark)**
g) Write the marks obtained from the lowest to the highest? **(1 mark)**