## PLE TOPICAL QUESTIONS FROM 2023 -2007

TOPICAL : FRACTIONS



1.(a) Simplify; 
$$\frac{1}{2} - \frac{1}{4} \div \frac{4}{5}$$

(b) Work out: 
$$\frac{0.27 \times 1.2}{0.9}$$

No.30 (proportion)

- 2.A farmer employed two workers to dig a piece of land. The first worker could dig the land alone in 6 days. The second worker could dig the same piece of land alone in 3 days. The two workers dug the land together.
- (a) Find the number of days they took to dig the piece land.
- (b) The farmer paid each worker sh.15000 per day. Calculate the amount of money the farmer spent to dig the piece of land.

3. Work out : 
$$\frac{3}{5} + \frac{1}{5}$$

4.A businesswoman borrowed sh.100,000 from a savings group which charged her an interest rate of 3% per month. Calculate the interest she paid after a period of six months.

No.23(ratios)

5. Work out: 
$$\frac{0.75 + 0.25}{0.65 - 0.4}$$

NO.28

6.A mathematical set costs sh.2000more than an exercise book. The cost of two exercise books is the same as  $\frac{2}{5}$  of the cost of a mathematical set. Find the cost of an exercise book.

2020.16(ratios)

7. The ratio of male workers to female workers in a factory is 2:3. There are 30 male workers in the factory. Find the total number of workers in the factory.

NO.24(interest)

8. Kapere deposited sh.750000 in a bank. The bank offers a simple interest at a rate of 18% per year. After some time, Kapere had an amount of sh.885000 in the bank.

- (a). Find the interest kapere earned.
- (b). Calculate how long the money was in the bank.

NO.28

9.In a school, the fraction of boys is  $\frac{1}{5}$  more than that of girls. The school has 280 girls.

- (a) Find the fraction of the girls in the school.
- (b) Calculate the total number of pupils in the school.

2019 NO.23(Operation)

10. Workout:  $\frac{2.4 \times 0.5}{0.12}$ 

(b) Simplify: 0.37-1.03+2.6

NO.29(ratios)

11. The number of goats, cows and sheep on a certain farm are in the ratio of 4:3:5 respectively. There are 40 more sheep than goats on the farm. Find the number of each type of animal on the farm.

-2018 [NO.18] (Percentages)

12. The taxi fare from kampala to mukono was raised by  $16\frac{2}{3}\%$ . The old fare was sh. 3000. The the new taxi fare.

Operation (No.22)

- 13.(a) Express  $\frac{4}{15}$  as a recurring decimal.
  - (b) Simplify:  $\frac{4}{5} \times \frac{3}{7} \div \frac{9}{7} + 2\frac{7}{15}$

- 14. Joyce, Peter and Hannah shared pencils in the ratio 3:5:7 respectively.
- (a). If Hannah got 12 more pencils than Joyce. How many pencils did they share altogether?
- (b) Find the number of pencils Peter got?

2017(no.11)

**15**. Workout:  $1\frac{1}{2} - \frac{2}{3}$ 

No.27(interest)

16. Arafat deposited money in the bank which offers a simple interest rate of  $2\frac{1}{2}\%$  per year. After 9 months, huis account had an amount of sh.163,000. Calculate the money Arafat deposited in the bank.

No.31

- 17.In a class,  $\frac{1}{5}$  of the girls are boarders while  $\frac{1}{3}$  of the boys are day scholars. The percentage of the girls in the class is 60%. The class has 10 boys who are day scholars.
- (a) How many pupils are in the class?
- (b) Find the number of girls who are boarders?



- 18. Work out:  $\frac{5}{9} + \frac{2}{3}$
- 19. Convert  $12\frac{1}{2}\%$  to fraction in its lowest term.

(No.23)

- 20. Simplify.  $\frac{0.12 \times 5.4}{0.03 \times 0.6}$
- (b) Express the recurring decimal 0.5454.... as a common fraction.

No.28(interest)

21. Hajati bought 120 shares from a village SACCO at a simple interest rate of 30% per year. Each share costs sh. 3000.

- (a) Find her total interest after  $3\frac{1}{2}$  years.
- (b) Calculate the total amount of money Hajati has in the SACCO after the  $3\frac{1}{2}$  years.

22. Work out: 
$$\frac{14}{15} \div \frac{2}{5}$$

No.18(ratios)

23. Gidudu has goats and sheep in the ratio of 3:2. If he has 24 goats, how many sheep does he have?

No.28

24. Maadada sold his radio to Aguti at sh.63000 making a loss of 10%. Aguti later sold the ratio to chebet at a profit of 15%.

- (a) Calculate the amount of money Madada paid for the radio.
- (b) For how much money did Aguti sell the radio?



25.work out: 
$$\frac{1}{6} \times \frac{3}{4}$$

No.20(interest)

26.A man got a loan of sh.120000 from savings and credit co-operative society at a simple interest rate of 8% per annum. He paid an interest of sh.7200 on the loan. How long was the loan?

No.25(operation)

27.(a) Work out: 
$$\frac{3.9+3.6}{0.06\times0.5}$$

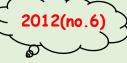
(b) Simplify: 
$$3\frac{1}{3} \div 2\frac{1}{2} \times 2\frac{2}{5}$$



28. Work out:  $\frac{2}{3} + \frac{1}{4}$ 

No.13

- 29. In a class, the ratio of girls to boys is 3:2. If there are 18 girls, how many pupils are in the class?
- 30. Work out:  $\frac{3}{4} \div 1\frac{1}{2}$



31. Write 0.08 as a fraction in its simplest form

No.27

No.12

32. In Jumbo primary school,  $\frac{1}{4}$  of the pupils in p.7 like science,  $\frac{2}{3}$  of the remainder like math. The rest of the pupils like English. If those who like English are 33. Find the total number of pupils in p.7.

No.31(interest)

- 33. A man's salary was increased by 80% to sh.312000 per month.
- (a) What was the man's monthly salary before the increment?
- (b) If 5% of his new salary is subtracted as tax. What is his final salary?

## SPECIAL QUESTIONS

2010 (No 41)

- 34. A man spends  $\frac{1}{3}$  of his salary on food,  $\frac{1}{9}$  on clothing,  $\frac{1}{6}$  on medical,  $\frac{1}{18}$  on house rent and banks the rest which is sh.35000.
- (a) What fraction of his salary does he bank?
- (b) How much money does he earn as salary?

2009(No.37)

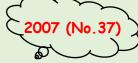
35. On a mixed farm,  $\frac{1}{3}$  of his land is used for growing food crops while  $\frac{1}{4}$  of the remaining land is for cash crops. The rest of the land is for cattle grazing.

- (a) What fraction of the land is used for cattle grazing.
- (b) If 15 hectares are used for cash crops, what is the total area of the farm?

2008 (No.37)

36.A certain country in Uganda has population of 300000 people. Of these people,  $\frac{3}{5}$  are females,  $\frac{5}{6}$  of the females are girls.

- (a) If  $\frac{2}{3}$  of the males among the population are boys, find the ratio of boys to girls.
- (b) What is the total number of boys and girls in the county?



- 37. Given that,  $\frac{2}{3}$  of Peter's salary is equal to  $\frac{3}{4}$  of Mary's salary.
- (a) Find Peter's salary if Mary's salary is sh.120000.
- (b) Express Mary's salary as a fraction of Peter's salary

