

## PLE TOPICAL QUESTIONS FROM 2023 -2007

### TOPICAL : FRACTIONS

2023 NO.21

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.

2022 no.1

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:  $\frac{4}{5} \times \frac{3}{7} \div \frac{9}{7} + 2\frac{7}{15}$

No.29(ratios)

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, his 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?



2016(No.31)

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.

2015 (No.7)

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 radio 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?

2014(No.4)

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:  $\frac{3.9+3.6}{0.06 \times 0.5}$

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



2013(no.10)

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?



2012(no.6)

30. Work out:  $\frac{3}{4} \div 1\frac{1}{2}$

No.12

31. Write 0.08 as a fraction in its simplest form

No.27

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?

2007 (No.37)

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

