

PLE AND OTHER TOPICAL QUESTIONS

[FRACTIONS]

SECTION A

1. Work out: $3 \frac{3}{4} \div 1 \frac{1}{2}$
2. Write 0.8 as a fraction in its simplest form.
3. A gate keeper's salary was increased from sh.50,000 to sh.60,000 .
Find the percentage increase.
4. Work out: $\frac{2}{3} + \frac{1}{4}$
5. In a class, the ratio of girls to boys is 3:2.If there are 18 girls, how many pupils are in the class?
6. Work out: $\frac{1}{6} \times \frac{3}{4}$
7. A man got a loan of sh.120,000 from a Saving and Credit Cooperative Society at a simple interest rate of 8% per annum.
He paid an interest of sh.7,200 on the loan. How long was the loan?
8. Work out: $\frac{14}{15} \div \frac{2}{5}$
9. Gidudu has goats and sheep in the ratio of 3:2.If he has 24 goats, how many sheep does he have?
10. Work out: $\frac{5}{9} \div \frac{2}{3}$
11. Convert $12 \frac{1}{2}\%$ to a fraction in its lowest term.
12. Work out: $1\frac{1}{2} - \frac{2}{3}$
13. A house can be built by 3 men in 20 days. How many men working at the same rate can build the same house in 12 days?
14. The taxi fare from Kampala to Mukono was raised by $16 \frac{2}{3}\%$.
The old fare was sh.3,000.Find the new taxi fare.
15. Work out: $2.0 \div 0.5$
16. A teacher deposited sh.72,000 in a bank. After one year, the teacher earned a simple interest of sh.3,600.Calculate the simple interest rate of the bank.
17. Work out: $9.8 \div 0.07$
18. 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.

19. Work out: $\frac{1}{2} - \frac{3}{4} + \frac{1}{3}$
20. Increase 45 apples by 66 $\frac{2}{3}$ %
21. Work out: $0.36 \div 6.00$
22. Work out: $\frac{2}{3} + \frac{2}{5}$
23. A trader deposited sh.900,000 in a village SACCO for a period of 2 years. If he earned an interest of sh.90,000. Calculate his interest rate.
24. A teacher's salary was increased by 12 $\frac{1}{2}$ %. Calculate her new salary if the original salary was sh.320,000.
25. Express 0.2727... as a vulgar fraction in its simplest form.
26. Sandra and Sanyu contributed towards a business such that Sandra paid sh.60,000 and Sanyu paid sh.24,000.
Find the ratio of Sandra's share to the total contribution.
27. The ratio of the length of John's rope to Chris' rope is 8:3.
John's rope is 35cm longer than Chris' rope. How long is Chris' rope?
28. Emily deposited sh.225,000 into her saving account. She spent 20% of her money to buy a new dress .How much money did Emily have left?
29. 15 boys can take 6 hours to slash a school compound .How long will 9 boys take to slash the same school compound if they were working at the same rate?
30. Joyce borrowed sh.300,000 from the bank payable at a rate of 10% p.a .
If the money earned an interest of sh.60,000,how long did she take to pay back the money?

SECTION B

31. In jumbo Primary School, $\frac{1}{4}$ of the pupils in P.7 like Science, $\frac{2}{3}$ of the remainder like Mathematics. The rest of the pupils like English. If those Who like English are 33, find the total number of pupils in P.7.
32. A man's salary was increased by 30% to sh.312,000 per month.
(a) What was the salary before the increment?
(b) If 5% of his new salary is subtracted as tax, what is his final s
33. (a) Work out: $\frac{3.9}{0.06} + \frac{3.6}{0.5}$

- (b)Simplify: $3\frac{1}{2} \div 2\frac{1}{2} \times 2\frac{2}{5}$
34. (a)Simplify:
$$\frac{0.12 \times 5.4}{0.03 \times 0.6}$$
- (b)Express the recurring decimal 0.5454... as a common fraction.
35. Hajati bought 120 shares from a village SACCO at a simple interest rate of 30% per year. Each share costs sh.3,000.
- (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.
36. Arafat deposited money in a bank which offers a simple interest rate of
37. $2\frac{1}{2}\%$ per year. After 9 months,his account had an amount of sh.163,000. Calculate the money Arafat deposited in the bank.
38. 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.
39. (a) Express $\frac{4}{15}$ as a recurring decimal
- (b)Simplify: $\frac{4}{5} \times \frac{3}{7} \div \frac{9}{14} + 2\frac{7}{15}$
40. Joyce, Peter and Hannah shared pencils in the ratio of 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.
41. (a)Work out:
$$\frac{2.4 \times 0.5}{0.12}$$
- (b)Simplify: $0.37 - 1.03 + 2.6$
42. 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.
43. Kapere deposited sh.750,000 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.885,000 in the bank.
- (a) Find the interest Kapere earned.

- (b) Calculate how long the money was in the bank.
44. In a school, the fraction of boys is $\frac{1}{3}$ more than that of girls. The school has 280 girls.
- (a) Find the fraction of girls in the school.
- (b) Calculate the total number of pupils in the school.
45. Tap P alone takes 3 minutes to fill a water tank.
- Tap Q alone takes 6 minutes to draw water from the same tank.
- (a) How long will it take to fill the whole tank when the two taps are left open at the same time?
- (b) If the tank had $\frac{2}{3}$ of water, how long will it take to fill the remaining part of the tank when both taps are left open at the same time?
46. Kirabo deposited sh.120,000 in a bank which offers a simple interest rate of 8% per month for 9 months.
- (a) Calculate her simple interest after 9 months.
- (b) What amount will she have on her account after 9 months?
47. Isaac deposited some money in a bank which offers a simple interest of 8% per year. After 9 months, his account had an amount of sh.127,000. Calculate the money Isaac deposited in the bank.
48. Mr. Mukasa spent 25% of his monthly salary on rent, $\frac{1}{6}$ of the remainder on savings and spent sh.350,000 on food.
- (a) Calculate his monthly salary.
- (b) How much money does he spend on rent?
49. At a funeral service, $\frac{5}{7}$ of the mourners were females and the rest were males. If 25% of the males were children and 60 more females than males attended the funeral, how many children attended the funeral service if $\frac{3}{5}$ of the females were adults?
50. Jane, Martha and Pamela contributed sh.120,000, sh.180,000 and sh.300,000 respectively for a joint business which made a profit of sh.420,000 by the end of the business. They then agreed to separate and each of them starts her own business and they shared the total money according to their initial contributions. How much did each person get?

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