

1. What is the reciprocal of $3\frac{1}{3}$?

2. Change $4\frac{3}{5}$ into an improper fraction.

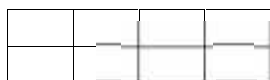
3. Change $\frac{3}{4}$ to decimal fraction

4. Work out $\frac{3}{5} + \frac{3}{4}$

5. Reduce $\frac{18}{24}$ to the lowest terms.

6. Simplify $\frac{3}{7} + \frac{3}{5}$

7. Shade $\frac{3}{4}$ of the figure



8. Subtract: $\frac{2}{5}$ from $\frac{3}{4}$

9. What must be added to $\frac{1}{3}$ to get $\frac{2}{5}$?

10. Simplify $1\frac{1}{2} - \frac{3}{4}$

11. Find the next two equivalent fractions of $\frac{1}{3}$,,

12. What is $\frac{2}{5}$ of 60?

13. Work out $\frac{1}{3} \div \frac{1}{12}$

14. How many $\frac{1}{4}$ kg packets of sugar can be got from 30 kg?

15. In a class of 60 pupils, $\frac{2}{5}$ of them are boys and the rest are girls.

a) What is the fraction of girls?

b) How many girls are in the class?

16. Find the multiplicative inverse of $7\frac{1}{3}$

17. Peter shared $\frac{3}{5}$ of a sugarcane among his 5 friends. What fraction did each get?

18. Shade 0.5 of the figure below.



19. Arrange the following fractions in ascending order. $\frac{3}{4}$, $\frac{1}{5}$ and $\frac{5}{6}$

20. Write $\frac{5}{6}$ as a decimal fraction.

21. Simplify $\frac{3}{4} - \frac{1}{8}$

22. How many half litre cups are in a 20 litre jerrycan?

23. In a class of 60 pupils, $\frac{2}{5}$ of are girls and the rest are boys.

a) What is the fraction of girls?

b) How many more girls are there than boys?

24. A car broke after covering $\frac{2}{7}$ of the journey. If it had covered 60 km of the journey, how far was the journey?

24. Simplify $\frac{1}{3} + \frac{1}{2} + \frac{1}{4}$

25. Simplify: $\frac{1}{2} \times \frac{2}{3} \div \frac{3}{4}$

26. Arrange: $\frac{3}{4}$, $\frac{1}{5}$ and $\frac{5}{6}$ in descending order.

27. Simplify: $\frac{5}{6} + \frac{3}{4}$ of $\frac{3}{7}$

28. Simplify: $\frac{2}{3} - \frac{1}{4} \times \frac{2}{5}$

29. Work out: $\frac{1}{2} - \frac{1}{4} + \frac{1}{6}$

30. Simplify: $\frac{2}{3}$ of $\frac{4}{5} + \frac{1}{2}$

31. Simplify: $\frac{2}{5}$ of $\frac{3}{4} \div \frac{4}{5}$

32. Simplify: $\frac{3}{5}$ of $[\frac{3}{7} - \frac{1}{3}]$

30. If $\frac{2}{3}$ of my salary is sh. 400,000. What is my salary?

31. Simplify: $5\frac{4}{10} - 3\frac{1}{2} + 2\frac{1}{4}$

32. Simplify: $3\frac{1}{2} - 1\frac{1}{4} + 3\frac{1}{8}$

33. $4\frac{1}{4} + \frac{1}{2} - 8\frac{1}{3}$

34. What is $\frac{6}{10}$ of $\frac{3}{18}$

35. Jane ate $\frac{3}{10}$ of a sugarcane and Jacky ate $\frac{1}{8}$ of the sugarcane. The remaining sugarcane was eaten by Esther.

a) What fraction did Esther eat?

36. Mr. Bwete ate $\frac{3}{7}$ of a cake. What fraction remained?

REVISION WORK ON FRACTIONS

37. In a class of 270 boys, $\frac{3}{4}$ are boys and the rest are girls.

- a) What is the fraction of girls?
- b) How many pupils are in the class?

38. In a club of 100 participants, 0.4 are males and the rest are females

- a). Find the fraction of females
- b). How many more males than females are there?

APPLICATION OF FRACTIONS INVOLVING REMAINDERS

1. A lady spends $\frac{2}{5}$ of her salary on food and $\frac{1}{6}$ of the remainder on water and she saves the rest sh 70,000.

- a) What fraction is saved?
- b) How much does she earn as her salary?

2. A man spent $\frac{1}{4}$ of his salary on food and $\frac{1}{3}$ of the remainder on rent and saves sh 500,000.

- a) What fraction does he save?
- b) Find his monthly salary.

3. A man spent $\frac{1}{3}$ of his salary on buying drinks and $\frac{1}{2}$ of it on buying food. If he spent **25%** of the remainder on rent and was left with Shs **60,000**.

- a) How much was his salary?

4. A woman spends her salary as follows: $\frac{1}{4}$ on rent, $\frac{1}{3}$ on food, $\frac{1}{2}$ of the remainder on fees and saves the rest.

- a) What fraction does he save?
- b) If she spent Shs. 300,000 on fees, how much is her salary?

5. Out of a cake, Jim ate $\frac{2}{5}$, Jane ate $\frac{1}{3}$ and Peter ate the rest.

- a) What fraction of the cake did Peter eat?
- b) If Peter's portion weighed 20 grams, what was the total weight of the cake?

APPLICATION OF FRACTIONS INVOLVING TIME (TAPS)

1. Tap A can fill the tank in 6 minutes and tap B can fill the same tank in 3 minutes. How long will both taps take to fill the tank if they are opened at the same time?

2. Tap A takes 3 minutes to fill the tank and tap B takes 4 minutes to draw water from the tank. How many minutes will it take to fill the tank if both taps are left opened at the same time?

3. Tap K takes 6 minutes to fill a tank and tap L takes 36 minutes to fill the same tank but tap M takes only 9 minutes to empty the same tank. If all taps are opened at the same time, how many minutes will they take to fill the tank?

4. Tap **A**, **D** and **E** are connected together the tank. Tap **A** takes 12 minutes to fill the

tank, tap **D** takes 24 minutes to fill the tank but tap **E** takes 16 minutes to draw water from the tank. If the tank holds 480 litres of water when full.

- a) How many litres does tap **A** pour into the tank?
- b) How many litres does tap **A** and tap **D** pour into the tank after one minute?

5. When tap **A** and tap **B** are opened at the same time, they fill the tank in 6 minutes. If tap **B** is turned on alone, it fills the tank in 8 minutes. How long will tap **A** take to fill the tank alone?

6. Amos can dig a garden in 8 days and Peter can dig the same garden in 10 days.

- a) What fraction of the garden can they dig in one day if both work together?

APPLICATION OF FRACTION INVOLVING CAPACITY

1. A tank was $\frac{5}{7}$ full. When 220 litres were drawn, it remained $\frac{2}{5}$ full. Find the capacity of the tank?

2. A tank was $\frac{2}{5}$ full of water. When **60** litres were added the tank became $\frac{11}{15}$ full.

- a) How many litres does the tank hold when full?
- b) How many litres does it hold when three quarters full?