

S.1 MATHS

Convert the following fractions to percentages

1. a) $\frac{2}{3}$ b) $\frac{2}{5}$ c) $\frac{1}{3}$ d) $1\frac{1}{2}$
2. a) $\frac{5}{6}$ b) $\frac{6}{5}$ c) $\frac{12}{12}$ d) $\frac{5}{12}$

Convert the following decimals to percentages

3. a) 0.45 b) 1.25 c) 4.5 d) 0.01
4. a) 0.005 b) 0.75 c) 0.002 d) 0.625

Convert the following percentages to fractions

5. a) 4% b) $1\frac{1}{2}\%$ c) $33\frac{1}{3}\%$ d) 17%
6. a) $2\frac{2}{3}$ b) $22\frac{1}{3}\%$ c) 46% d) $12\frac{3}{4}\%$

7. Find the values of the following:

- a) 24% of 0.0084 b) $5\frac{2}{3}\%$ of 6,000 c) 1.5% of 10,00 d) 3% of $\frac{5}{4}$

8. Increase the following quantities by the percentages given:

- a) 320 by 2% b) 7500 by $1\frac{1}{3}$ c) 0.456 by 5% d) 64 by 1.25%

9. Repeat question 8 above by decreasing.

10. A farmer harvesting tomatoes finds that about 5% of his harvest is defective. Find how many defective tomatoes would he expect to find in

- a) A harvest of 2,000 tomatoes b) A harvest of 1,500 tomatoes

11. An alloy is made of 20% copper and 80% iron. What weight of each would there be in the following weights of alloy?

- a) 1,000kg b) 500kg c) 250kg

12. In a local election there were two candidates. They received 52.5% and 24% of the votes of total electorate respectively. If 2,500,000 voters failed to vote, how many in all could have voted.

13. A trader sold an article at Shs. 12,000 there by making a loss of 4%. What was the cost price?

14. A business man made a profit of 20% on an article that costed him Shs. 750,000. Find the selling price.

15. A motor dealer bought a vehicle at 4.5m and sold it at 5.2m. Find his percentage profit.

16. The price of an article is 29,700/= after 40% decrease and 10% increase. Find the original price.