

Fractions Exam Practice



Q1. Work out $\frac{2}{5} + \frac{1}{3}$ (2 marks)

Q2. Work out $\frac{5}{7} - \frac{2}{6}$ (2 marks)

Q3. (i) Write $2\frac{3}{4}$ as an improper fraction. (1 mark)

(ii) Work out $2\frac{3}{4} \times \frac{2}{9}$, simplifying your answer. (2 marks)

Q4. Work out $\frac{3}{7} \div \frac{9}{10}$, simplifying your answer. (2 marks)

Q5. Calculate $\frac{2}{5} \times 9$ (1 mark)

Q6. Calculate $1\frac{2}{15} + 3\frac{2}{3}$ (2 marks)

Q7. Find $\frac{3}{8}$ of 120 (2 marks)

Q8. Work out $5\frac{5}{7} \div 3\frac{2}{9}$, giving your answer as a mixed number. (3 marks)

Q9. Work out $\frac{3}{\frac{2}{10}}$ (2 marks)

Q10. Work out $\frac{2}{15} \div 8$, simplifying your answer. (2 marks)

Q11. Let a, b and c be positive whole numbers with $b < c$. Write $a\frac{b}{c}$ as an improper fraction. (2 marks)



Applied Mixed Practice Problems

Q12. In year 7, exactly $\frac{13}{18}$ of the pupils are going to go on a field trip.

a) Find the fraction of pupils who are not going on the trip.

(1 mark)

b) Could there be 144 students in year 7? Explain your answer.

(2 marks)

Q13. In a box there are 450 chocolates. One third of them contain nuts.

$\frac{3}{5}$ of those containing nuts are hazelnuts. Work out the fraction of the chocolates which do not contain hazelnuts.

(3 marks)

Q14. Roger gives $\frac{2}{15}$ of his savings to his children, and $\frac{3}{8}$ to charity. His best friend also receives an amount of money, equal to half that which his children receive. Work out what fraction of the money he still has left.

(3 marks)

Q15. State which of these sums results in the smallest answer.

A) $\frac{1}{3} - \frac{1}{4}$ B) $\frac{1}{4} - \frac{1}{5}$ C) $\frac{1}{5} - \frac{1}{6}$ D) $\frac{1}{6} - \frac{1}{7}$ E) $\frac{1}{7} - \frac{1}{8}$

(1 mark)

Q16. a) Find values of a and b which satisfy the equation, $\frac{1}{4} + \frac{a}{b} = \frac{13}{24}$

(2 marks)

b) State another value of a and b which satisfies the equation in part (a)

(1 mark)

Q17. Two design students are discussing a project which uses a rectangular wooden block.

Abbey suggests they cut $\frac{1}{4}$ off the block from each end, whilst Barry suggests that they cut $\frac{3}{10}$ off the block at one end. Decide which student's suggestion will give them the most material left, and by what fraction of the total amount.

(3 marks)