



## Fractions Exam Practice

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

Answer: \_\_\_\_\_  
(2 marks)

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

Answer: \_\_\_\_\_  
(2 marks)

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

Answer: \_\_\_\_\_  
(2 marks)

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

Answer: \_\_\_\_\_  
(2 marks)



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

Answer: \_\_\_\_\_  
(2 marks)

Q5. Calculate  $\frac{2}{5} \times 9$

Answer: \_\_\_\_\_  
(1 mark)

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

Answer: \_\_\_\_\_  
(2 marks)



Q7. Find  $\frac{3}{8}$  of 120

Answer: \_\_\_\_\_  
(4 marks)

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

Answer: \_\_\_\_\_  
(3 marks)

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

Answer: \_\_\_\_\_  
(2 marks)



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

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.

Answer: \_\_\_\_\_  
(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.

Answer: \_\_\_\_\_  
(1 mark)

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

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.

Answer: \_\_\_\_\_  
(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.

Answer: \_\_\_\_\_  
(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)  $\frac{1}{7} - \frac{1}{8}$

Answer: \_\_\_\_\_  
(1 mark)



Q16.

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

Answer: \_\_\_\_\_  
(2 marks)

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

Answer: \_\_\_\_\_  
(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 end. Decide which student's suggestion will give them the most material left, and by what fraction of the total amount.

Answer: \_\_\_\_\_  
(3 marks)