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 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 ¼ 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)