

National 5 Final Exam Practice

Numerical Skills

Fractions and Percentages

Average Allocation

2 / 3 Marks

- In 2012, an antique vase was valued at £465. Its value was expected to increase at a rate of 4.3% per year. Work out the estimated value of the vase in 2015.
Round your answer to 2 significant figures.
- Evaluate $1\frac{3}{5} + \frac{3}{10} \div \frac{3}{4}$.
- An ex-display television has been marked with 30% off. It now costs £640.50. What was the original cost of the television?
- Due to a poor economy, house prices decreased by 5.6% per year. A house was valued at £115 000 in 2007. What was the value of the house in 2011?
- A car is priced at £12 500 including VAT at 20%. What is the cost of the car before VAT is added?
- Evaluate $\frac{3}{7}$ of $1\frac{3}{4} + \frac{5}{8}$.
- A survey showed that in Glasgow, approximately 104, 700 people have insufficient physical activity. A report recommends this amount should be decreased by 5.6% each year for 3 years and targeted a reduction to 88 000 people.
Was this recommendation successful in reaching the target? Show all your working.
- Evaluate $2\frac{1}{3} \div (\frac{5}{6} + \frac{1}{4})$.
- The cost of a restaurant bill is £93.61 after a service charge of 15% is added. Work out the cost of the bill before this charge was added.
- Mr and Mrs Doyle paid a total price of £1946 for a family holiday. This included a 12% administration fee. How much is the holiday before the administration fee is added?
- A local council has measured water waste to be 732 000 litres by contamination and unnecessary usage. It aims to reduce this by 7.5% over the next 5 years with the intention of having cut this to only 500 000 litres.
Will the council succeed in meeting this target? Show all your working.
- Evaluate $\frac{5}{9}$ of $2\frac{1}{3} - \frac{4}{5}$.
- A salesman can sell a new fitted kitchen for £7300 including commission at 10.7%.
Work out the cost of the kitchen without the commission.
- Evaluate $4\frac{1}{4} - 2\frac{5}{6}$.