

FRACTIONS, PERCENTAGES

YEAR	PAPER	QUESTION
2014	1	<p>Evaluate $\frac{5}{12} \times 2\frac{2}{9}$.</p> <p>Give the answer in simplest form. 2</p>
2014	1	<p>480 000 tickets were sold for a tennis tournament last year.</p> <p>This represents 80% of all the available tickets.</p> <p>Calculate the total number of tickets that were available for this tournament. 3</p>
2014	2	<p>There are 964 pupils on the roll of Aberleven High School.</p> <p>It is forecast that the roll will decrease by 15% per year.</p> <p>What will be the expected roll after 3 years?</p> <p>Give your answer to the nearest ten. 3</p>
2015	1	<p>Evaluate $6\frac{1}{5} - 2\frac{1}{3}$. 2</p>
2015	2	<p>A house is valued at £240 000.</p> <p>Its value is predicted to rise by 2.8% per annum.</p> <p>Calculate its predicted value after 2 years. 3</p>
2015	2	<p>James paid £297.50 for a laptop in a sale.</p> <p>The discount in the sale was 15%.</p> <p>Calculate the original price of the laptop. 3</p>
2016	1	<p>Evaluate $\frac{3}{4} \left(\frac{1}{3} + \frac{2}{7} \right)$.</p> <p>Give your answer in its simplest form. 2</p>
2017	1	<p>Evaluate $1\frac{5}{6} \div \frac{3}{4}$.</p> <p>Give your answer in its simplest form. 2</p>

2017	2	<p>A necklace is valued at £1200.</p> <p>Its value is expected to increase by 4.5% per year over the next 3 years.</p> <p>Calculate the expected value of the necklace after this time.</p> <p>Give your answer to the nearest pound.</p>	3
2017	2	<p>A theatre group sold 4830 tickets for their show.</p> <p>This was 15% more than they sold last year.</p> <p>How many tickets did they sell last year?</p>	3
2018	1	<p>Evaluate $2\frac{1}{3} + \frac{4}{5}$.</p>	2
2018	2	<p>Households in a city produced a total of 125 000 tonnes of waste in 2017.</p> <p>The total amount of waste is expected to fall by 2% each year.</p> <p>Calculate the total amount of waste these households are expected to produce in 2020.</p>	3
2019	1	<p>Evaluate $\frac{3}{8} \times 1\frac{5}{7}$.</p> <p>Give your answer in its simplest form.</p>	2
2019	2	<p>A charity distributed 80 000 emergency packages during 2018.</p> <p>This number is expected to increase by 15% each year.</p> <p>Calculate how many emergency packages the charity expects to distribute in 2021.</p>	3
2019	2	<p>Georgie had her roof repaired.</p> <p>She was charged an extra 2.5% for late payment.</p> <p>She had to pay a total of £977.85.</p> <p>Calculate how much she would have saved if she had paid on time.</p>	3

2022	1	<p>Evaluate</p> $\frac{2}{3}\left(\frac{1}{5} + \frac{3}{4}\right).$ <p>Give your answer in its simplest form.</p> <p style="text-align: right;">2</p>
2022	1	<p>Tommy buys flower seeds from a website.</p> <p>Tommy is given a 30% discount. He pays £16.10 for the seeds.</p> <p>Calculate the cost of the flower seeds without the discount.</p> <p style="text-align: right;">3</p>
2022	2	<p>A company's annual profit at the end of 2021 was £215,000.</p> <p>The profit is expected to increase by 3% each year.</p> <p>Calculate the company's expected annual profit by the end of 2025.</p> <p>Give your answer correct to the nearest thousand pounds.</p> <p style="text-align: right;">3</p>