## Maths HL8 - Fraction Arithmetic, percentages and Standard Form

- 1 Calculate  $\frac{5}{6}\left(\frac{1}{4} + \frac{1}{8}\right)$  giving your answer as a fraction in its lowest terms.
- 93 800 students took an examination.
  19% received grade A.
  24% received grade B.
  31% received grade C.
  10% received grade D.
  11% received grade E.
  The rest received grade U.
  - a What percentage of the students received grade U?
  - b What fraction of the students received grade B? Give your answer in its lowest terms.
  - c How many students received grade A?
- 3 During one summer there were 27500 cases of Salmonella poisoning in Britain. The next summer there was an increase of 9% in the number of cases. Calculate how many cases there were in the second year.
- 4 Abdul's height was 160 cm on his 15th birthday. It was 172 cm on his 16th birthday. What was the percentage increase in his height?

## Past paper questions

1 Write 0.0000574 in standard form.

[Cambridge IGCSE Mathematics 0580 Paper 22 Q1 May/June 2016]

2	Do not use a calculator in this question and show all the steps of your working. Give each answer as a fraction in its lowest terms. Work out	
	<b>a</b> $\frac{3}{4} - \frac{1}{12}$	[2]
	<b>b</b> $2\frac{1}{2} \times \frac{4}{25}$	- [2]
		[Cambridge IGCSE Mathematics 0580 Paper 11 Q21 October/November 2013]
3	Calculate 17.5% of 44 kg.	[2]
		[Cambridge IGCSE Mathematics 0580 Paper 11 Q10 October/November 2013]
4	Without using your calculator, work out $5\frac{3}{8}-2\frac{1}{5}$ . Give your answer as a fraction in its lowest terms.	
	You must show all your working.	[3]
		[Cambridge IGCSE Mathematics 0580 Paper 13 Q17 October/November 2012]
5	Samantha invests \$600 at a rate of 2% per year simple in	aterest.

Calculate the interest Samantha earns in 8 years.

[2]

[1]

