

- 1.** [4 points]
Change the decimal into a proper fraction in simplified form and the fraction into a decimal (you must show all working):

(a) $0.1\dot{4}\dot{5}$

(b) $\frac{4}{27}$

- 2.** [3 points]
Calculate the following. In part (a) give your answer in simplified form as a proper fraction or a mixed number.

(a) $\frac{0.\dot{2} + \frac{1}{4}}{\frac{2}{3} - \frac{1}{12}} \times 3.5$

- (b) a number whose 65% is 403.

- 3.** [3 points]
Price of an item has been increased by $p\%$ and then decreased by $p\%$. Find the value of p , if the initial price was \$5000 and the final price is \$4928.

- 4.** [3 points]
What is the percentage concentration of acid in a solution which is a mixture of 100 mL of a 30% acid solution, 150 mL of a 10% solution and 250 mL of a 12% solution.