



**Maths**  
**Junior Certificate**  
**Ordinary Level**

**Past Exam Questions on**  
**Fractions and Decimals**

**Q3 Part (a) 2009 Paper 1**

3. (a) Aideen owns 6000 shares in a certain company.  
She sells two-thirds of her shares.  
How many shares does she now own in the company?



**Q2 Part (c) 2009 Paper 1**

- 2(c) (i) Using a calculator, or otherwise, write  $\frac{1}{8}$  and  $\frac{13}{80}$  as decimals.

Hence or otherwise, put the following numbers in order, starting with the smallest and finishing with the largest:

$$\frac{1}{8}, \frac{13}{80}, 0.1525.$$

$\frac{1}{8} =$	$\frac{13}{80} =$	
_____ ,	_____ ,	_____ .


- (ii) Using a calculator, or otherwise, find the exact value of  $(3.61)^{\frac{1}{2}}$ .

$(3.61)^{\frac{1}{2}} =$
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- (iii) Using a calculator, or otherwise, evaluate


$$\sqrt{94.09} \times (2.75)^2 - \frac{1}{0.3125}.$$

Give your answer correct to two decimal places.


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**Q2 (b) 2007 Paper 1**

- (ii) By rounding each of these numbers to the nearest whole number, estimate the value of  $\frac{24 \cdot 092}{6 \cdot 1 - 2 \cdot 93}$ .

  $\frac{24 \cdot 092}{6 \cdot 1 - 2 \cdot 93}$  is approximately equal to:

$\frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}} - \boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \boxed{\phantom{000}}$

- (iii) Using a calculator, or otherwise, find the exact value of  $\frac{24 \cdot 092}{6 \cdot 1 - 2 \cdot 93}$ .

$\frac{24 \cdot 092}{6 \cdot 1 - 2 \cdot 93}$

**Q2 (b) 2006 Paper 1**

- (ii) By rounding each of these numbers to the nearest whole number, estimate the value of  $\frac{4 \cdot 368 + 10 \cdot 92}{3 \cdot 12}$ .

~~$\frac{4 \cdot 368 + 10 \cdot 92}{3 \cdot 12}$~~  is approximately equal to:

$$\frac{\boxed{\phantom{000}} + \boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \boxed{\phantom{000}}$$

- (iii) Using a calculator, or otherwise, find the exact value of  $\frac{4 \cdot 368 + 10 \cdot 92}{3 \cdot 12}$ .

**Q2 (c) 2005 Paper 1**

**(iii)** Using a calculator, or otherwise, evaluate

$$\sqrt{65 \cdot 61} \times \frac{3 \cdot 14}{0 \cdot 47} - (2 \cdot 42)^2.$$

Give your answer correct to two decimal places.

