



Approximation (B)



Section A

Work out the exact answer to the following questions **without using a calculator**.

- 1) $0.5 \times 5 =$ 2) $60 \times 0.3 =$ 3) $0.02 \times 7 =$ 4) $11 \times 0.08 =$
 5) $8 \div 0.2 =$ 6) $3.5 \div 0.5 =$ 7) $24 \div 0.04 =$ 8) $36 \div 0.9 =$

Section B

	Working out	Approximate Answer	Actual Answer
$\frac{\sqrt{17}}{2}$			
$\frac{\sqrt{65}}{\sqrt{3}}$			
$\frac{39 \times 21}{4}$			
$\frac{77 \times 19}{9}$			
$\frac{\sqrt{5} + 3}{5}$			
$\frac{\sqrt{80} - 1}{4}$			
$\frac{38 + \sqrt{141}}{4 + \sqrt{35}}$			
$\frac{\sqrt{8} + 4}{0.48}$			
$\frac{\sqrt{50} + 4}{0.51}$			
$\frac{\sqrt{24} + 7}{0.18}$			

Section C

- 1) Estimate the value of fifty seven divided by zero point three five.
- 2) Ryan does the calculation $\sqrt{(2.07 \div 0.043)}$ on the calculator, and gets 69.38265.
Give an approximate answer to this question to show that he is wrong.
- 3) Roshni does the calculation $\frac{62.1 \times 1.9^2}{0.841}$ on the calculator, and gets 26.65648038.
Give an approximate answer to this question to show that she is wrong.