Name:	Date:
Question 1:	E+F 1·2a Bronze Outcome 3
Multiply out the following brackets and collect like terms;	
$(x+7)(x^2+8x+9)$	
Question 2:	APP 1.3a Silver Outcome 3
An antique clock is expected to decrease in value by 1.8% p.a.	
The clock was bought for £900.	
How much is it expected to be worth after 3 years?	
Question 3:	REL 1.1e Silver Outcome 2
Change the subject of the formula to \emph{v} .	
$y = \frac{v^2}{z} + 3$	
Question 4:	REL 1·1a Silver Outcome 2
Find the equation of the line joining the points $(2, -1)$ and $(4, 5)$.	
Give the equation in it's simplest form.	
Question 5:	REL 1·1c Gold Outcome 2
Solve the following inequality;	
$\frac{x}{9} + \frac{x}{3} \ge 2$	
My score:	1

Exam Questions A A A Question 1: You're on your own! Evaluate $\frac{3}{4} \left(\frac{1}{3} + \frac{2}{7} \right)$. Give your answer in its simplest form. 2 REL 1.1d Gold Outcome 1 Question 2: Aaron saves 50 pence and 20 pence coins in his piggy bank. Let x be the number of 50 pence coins in his bank. Let y be the number of 20 pence coins in (a) There are 60 coins in his bank. Write down an equation in x and y to illustrate this information. (b) The total value of the coins is £17.40. Write down another equation in x and y to illustrate this information. (c) Hence find algebraically the number his piggy bank. REL 1⋅3a Silver Outcome 2 Question 3: A cuboid is shown below. It has length (x + 5) metres, breadth x metres, height 1 metre and volume 24 cubic metres. (a) Show that $x^2 + 5x - 24 = 0$. (b) Using the equation in part (a), find the breadth of the cuboid. E+F 1.1b Gold Outcome 2 Question 4: Evaluate $16^{\frac{3}{4}}$. REL 1.4a Gold Outcome 1 Question 5: Ocean World has an underwater viewing tunnel. The diagram below shows the cross-section of the tunnel. It consists of part of a circle with a horizontal base height The radius of the circle is 1.95 metres and the width of the base is 2.5 metres. Calculate the height of the tunnel. 4

My score: