Name:	Date:
Question 1:	APP 1·3a Bronze Outcome 1
A tin of soup is on special offer and contains 480 grams.	
This is 20% more than the standard tin.	
How much does the standard tin hold?	
Question 2:	E+F 1·2a Gold Outcome 3
Multiply out the following brackets and collect like terms;	
$(2x-3)(x^2+4x-5)$	
Question 3:	REL 1·1d Gold Outcome 1
Solve algebraically the system of equations; $5x + 2y = 9$ $4x + 3y = 3$	
Question 4: Evaluate; $81^{\frac{3}{4}}$	E+F 1·1b Gold Outcome 2
Question 5:	REL 1.4a Bronze Outcome 1
Use the converse of Pythagoras to determine whether or not the following triangle is right-angled.	
12 · 5 mm 7 · 5 mm	
My score:	

## Exam Questions | A A A REL 1·1e Silver Outcome 2 Question 1: A formula used to calculate the flow of water in a pipe is $f = \frac{kd^2}{20}$ . Change the subject of the formula to d. E+F 1.4c Bronze Outcome 1 Question 2: E+F 1.4c Gold Outcome 2 A drinks container is in the shape of a cylinder with radius 20 centimetres and height 50 centimetres. 50 cm (a) Calculate the volume of the drinks Give your answer in cubic centimetres, correct to two significant figures. (b) Liquid from the full container can fill 800 cups, in the shape of cones, each of radius 3 centimetres. What will be the height of liquid in each cup? 🚁 REL 1·5a Silver Outcome 1 Question 3: Part of the graph of $y = b \cos ax^{\circ}$ is shown in the diagram. State the values of a and bQuestion 4: 🔑 You're on your own! A straight line has equation 3y = 12 - 4x. Find the coordinates of the point where it crosses the x-axis. REL 1·3a Silver Outcome 2 Question 5: (a) A decorator's logo is rectangular and measures 10 centimetres by 6 centimetres. It consists of three rectangles: one red, one yellow and one blue \_\_\_\_10 cm yellow blue The yellow rectangle measures 10 centimetres by x centimetres. Show that the area, A, of the blue rectangle is given by the expression (b) The area of the blue rectangle is equal to $\frac{1}{5}$ of the total area of the logo. Calculate the value of x. My score: