Name:	Date:
Question 1: The temperature of a hot tub is 15°C and is set to increase 2% every hour. What will the temperature of the hot tub be after 3 hours?	APP 1·3a Bronze Outcome 2
Question 2: Express this fraction in it's simplest form. $\frac{2x-8}{x^2-x-12}$	E+F 1·3 Gold Outcome 1
Question 3: Write down the gradient and the y-intercept of the straight line with the following equation; $2y + 3x = 9$	REL 1·1a Gold Outcome 1
Question 4: Evaluate; $4\frac{8}{9} - 1\frac{2}{3}$	APP 1·3b Gold Outcome 1
Question 5: Solve the following trig equation; $6 \cos x^{\circ} - 5 = 0, 0 \le x \le 360^{\circ}$	REL 1.5b Bronze Outcome 1
My score:	<u>I</u>

Exam Questions A A A



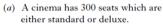
Æ E+F 1⋅2a Silver Outcome 2

Multiply out the brackets and collect like terms.

$$(x+2)(x-5)-9x$$

Question 2:

Question 1:



Let x be the number of standard seats and v be the number of deluxe seats.

Write down an algebraic expression to illustrate this information.

(b) A standard seat costs £4 and a deluxe seat costs £6.

> When all the seats are sold the ticket sales are £1380.

Write down an algebraic expression to illustrate this information.

(c) How many standard seats and how many deluxe seats are in the cinema?



REL 1.1d Gold Outcome 1

Question 3:

Change the subject of the formula

$$A = \frac{1}{2}h(a+b)$$



REL 1.1e Bronze Outcome 2

Question 4:

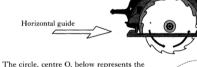
to h.

A circular saw can be adjusted to change the depth of blade that is exposed below the horizontal guide.





REL 1.4a Gold Outcome 1



blade and the line AB represents part of

This blade has a radius of 110 millimetres.

If AB has length 140 millimetres, calculate the depth, d millimetres, of saw exposed.



Question 5:

Solve the equation

$$2x^2 - 6x - 5 = 0,$$

giving the roots correct to one decimal place.



REL 1:3a Gold Outcome 3

My score: