Name:	Date:
Question 1:  An antique chair is bought for £900. It is expected to decrease in value by 2% each year. How much is it expected to be worth in 3 years time? 	APP 1·3a Bronze Outcome 3
Question 2: Factorise the following expression; $h^2 - 3h - 10$	E+F 1·2b Silver Outcome 3
Question 3: Express the following as a single fraction in it's simplest form. $\frac{6}{(x+2)} - \frac{1}{(x-4)}$	E+F 1·3 Gold Outcome 2
Question 4: Solve **algebraically** the system of equations; $4x + 3y = 5$ $3x + 5y = 1$	REL 1·1d Gold Outcome 1
Question 5: Find the equation of the line joining the points (1, -3) and (3, 9). Give the equation in it's simplest form.	REL 1·1a Silver Outcome 2
My score:	

Exam Questions

Question 1:

APP 1·3b Gold Outcome 1

Evaluate $2\frac{1}{3}+\frac{4}{5}$. 2

Question 2:

REL 1·1e Bronze Outcome 2

Change the subject of the formula

$$P = 2(L + B)$$

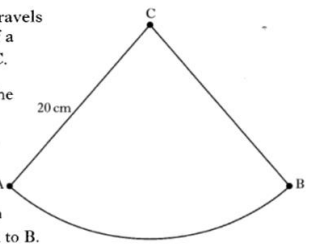
to L. 2

Question 3:

E+F 1·4b Gold Outcome 1

A pendulum travels along an arc of a circle, centre C.

The length of the pendulum is 20 centimetres.



The pendulum swings from A to B.

The length of the arc AB is 28·6 centimetres.

Find the angle through which the pendulum swings from A to B. 4

Question 4:

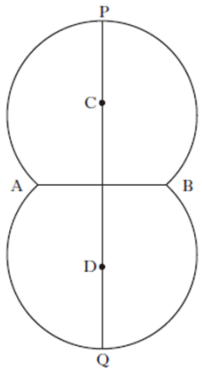
REL 1·4a Gold Outcome 1

The shape below is used as a logo in an advertising campaign. It is made up from segments of two identical circles.

The points C and D are the centres of the circles and each circle has a radius of 24 centimetres.

AB is a common chord of length 30 centimetres.

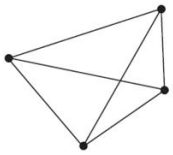
Calculate the height of the logo, represented by the line PQ. 5



Question 5:

REL 1·3a Silver Outcome 2

The minimum number of roads joining 4 towns to each other is 6 as shown.



The minimum number of roads, r, joining n towns to each other is given by the formula

$$r = \tfrac{1}{2}n(n-1).$$

(a) State the minimum number of roads needed to join 7 towns to each other. 1

(b) When $r = 55$, show that $n^2 - n - 110 = 0$. 2

(c) Hence find **algebraically** the value of n. 3

My score: