Name:	Date:
Question 1:	REL 1·1d Gold Outcome 1
Solve algebraically the system of equations; $5x + 4y = 23$ $2x + 3y = 5$	
Question 2:	E+F 1·2a Gold Outcome 3
Multiply out the following brackets and collect like terms;	
$(3x - 2)(x^2 - 4x + 5)$	
Question 3: The cost of petrol is £1.90 per litre.	APP 1·3a Gold Outcome 2
The value of petrol is expected to rise at the rate of 1% next year and 2% in the following year.	
Calculate the expected value of petrol after 2 years.	
Question 4:	E+F 1·4c Gold Outcome 2
This cone has a volume of 5358.93 mm³.	
r mm	
Calculate it's radius.	
Question 5:	REL 1·1c Gold Outcome 2
Solve the following inequality;	
$3x - 1 > \frac{4x - 13}{3}$	
My score:	

Exam Questions A A A



Question 1:

REL 1.1e Silver Outcome 1

Change the subject of the formula to m.

$$L = \frac{\sqrt{m}}{k}$$

2

Question 2:

E+F 1·1a Gold Outcome 1

Simplify
$$\sqrt{2}(\sqrt{3}+\sqrt{2})-\sqrt{6}$$
.





REL 1.4 Silver Outcome 2

A rugby team scored the following points in a series of matches.

- (a) For this sample, calculate:
 - (i) the mean;



(ii) the standard deviation.

Show clearly all your working.

The following season, the team appoints a new coach.

A similar series of matches produces a mean of 27 and a standard deviation of 3.25.

Make two valid comparisons about the performance of the team under the new coach.



E+F 1.1b Gold Outcome 2

Question 4:

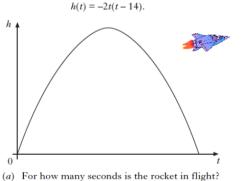
Evaluate



Question 5:

The diagram below shows the path of a rocket which is fired

The height, h metres, of the rocket after t seconds is given by



REL 1.3a Bronze Outcome 2 REL 1.2 Gold Outcome 3

- (b) What is the maximum height reached by the rocket? 2

My score: