Name:	Date:
Question 1:	APP 1:3b Gold Outcome 1
Evaluate; $3\frac{5}{6} + 2\frac{4}{7}$	
Question 2:	REL 1.3b Bronze Outcome 1
Calculate the discriminant and determine the nature of the roots for the following quadratic equation. $x^2 + 8x + 3 = 0$	
Question 3:	E+F 1·1a Silver Outcome 1
Simplify the following expression.	
$\sqrt{48} + \sqrt{12} + \sqrt{3}$	
Question 4:	E+F 1·2b Silver Outcome 3
Factorise the following expression;	
$d^2 + 5d - 6$	
Question 5:	E+F 1·4c Gold Outcome 3
This sphere has a volume of 5572.45 m³.	
r m	
Calculate it's radius.	
My score:	

Exam Questions A A A



Question 1:

👺 E+F 1·2a Gold Outcome 3

Multiply out the brackets and collect like terms.

$$(x+5)(2x^2-3x-1)$$
 3

Question 2:



APP 1.4 Silver Outcome 2

A gardener grows tomatoes in his greenhouse.

The temperature of the greenhouse, in degrees Celsius, is recorded every day at noon for one week.

(a) For the given temperatures, calculate:

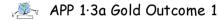
- (i) the mean:
- (ii) the standard deviation.

Show clearly all your working.

For best growth, the mean temperature should be (20 $\,\pm\,$ 5)°C and the standard deviation should be less than 5 °C.

(b) Are the conditions in the greenhouse likely to result in best growth? Explain clearly your answer. 2





Cleano washing powder is on special offer.



Each box on special offer contains 20% more powder than the standard box.

A box on special offer contains 900 grams of powder.

How many grams of powder does the standard box contain?

Question 4:



REL 1.1e Bronze Outcome 2

Change the subject of the formula

$$\frac{x}{c} + a = b$$

to x.

Question 5:



E+F 1·3 Gold Outcome 2

Express $\frac{3}{x} - \frac{5}{x+2}$, $x \neq 0$, $x \neq -2$, as a

single fraction in its simplest form. 3

My score: