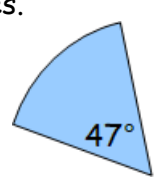
Name:	Date:
Question 1: Find the equation of the line joining the points (5, -10) and (1, 2). Give the equation in it's simplest form.	REL 1·1a Silver Outcome 2
Question 2: Express $x^2 - 8x - 1$ in the form $(x + a)^2 + b$.	E+F 1·2c Bronze Outcome 1
Question 3: Evaluate; $4\frac{3}{8} - 2\frac{1}{4}$	APP 1·3b Gold Outcome 1
Question 4: This sector has an arc length of 13·53 metres.  What is the length of it's diameter?	E+F 1·4b Gold Outcome 1
Question 5: Solve the following equation; $\frac{2x+3}{2} + \frac{x-9}{4} = 1$	REL 1·1c Gold Outcome 1
My score:	

Exam Questions

Question 1:

E+F 1·2a Gold Outcome 2

Multiply out the brackets and collect like terms.

$(3x + 2)(x - 5) + 8x$ **3**

Question 2:

APP 1·4 Silver Outcome 2

A hotel inspector recorded the volume of wine, in millilitres, in a sample of six glasses.

120 126 125 131 130 124

Use an appropriate formula to calculate the standard deviation.
Show clearly all your working. **4**

Question 3:

REL 1·1d Gold Outcome 1

Find the point of intersection of the straight lines with equations $x + 2y = -5$ and $3x - y = 13$.

4

Question 4:

REL 1·1e Silver Outcome 2

Change the subject of the formula $y = ax^2 + c$ to x. **3**

Question 5:

E+F 1·3 Silver Outcome 2

Express as a fraction in its simplest form

$\frac{1}{x^2} + \frac{1}{x}, \quad x \neq 0.$ **2**

My score: