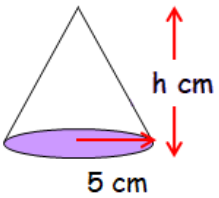
Name:	Date:
Question 1: Solve **algebraically** the system of equations; $5x + 3y = 42$ $3x - 2y = 10$	REL 1·1d Gold Outcome 1
Question 2: Multiply out the following brackets and collect like terms; $(x - 3)(4x + 9)$	E+F 1·2a Gold Outcome 2
Question 3: This cone has a volume of 336·33 cm³.  Calculate it's height.	E+F 1·4c Gold Outcome 2
Question 4: Evaluate; $3\frac{2}{3} \times 1\frac{1}{5}$	APP 1·3b Gold Outcome 2
Question 5: Express $x^2 - 2x + 5$ in the form $(x + a)^2 + b$.	E+F 1·2c Bronze Outcome 1
My score:	

Exam Questions

Question 1:

REL 1·1b Silver Outcome 1

Given that $f(x) = x^2 + 5x$,
evaluate $f(-3)$. 2

Question 2:

APP 1·4 Silver Outcome 2

Two groups of six students are given the same test.

(a) The marks of Group A are

73 47 59 71 48 62.

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

(b) In Group B, the mean is 60 and the standard deviation is 29·8.
Compare the results of the two groups. 2

Question 3:

REL 1·1c Silver Outcome 2

Solve the inequality

$4x - 5 \leq 7x - 20$. 3

Question 4:

REL 1·1e Silver Outcome 2

Change the subject of the formula $m = \frac{3x + 2y}{p}$ to x. 3

Question 5:

E+F 1·1a Silver Outcome 2

Express $\frac{\sqrt{40}}{\sqrt{2}}$ as a surd in its simplest form. 2

My score: