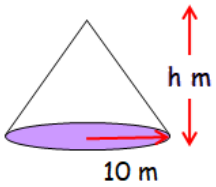
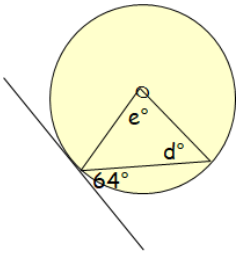
Name:	Date:
Question 1: A function is given as $g(m) = 8m - 5$. Evaluate $g\left(\frac{1}{2}\right)$.	REL 1·1b Gold Outcome 1
Question 2: This cone has a volume of 1884 m^3.  Calculate it's height.	E+F 1·4c Gold Outcome 2
Question 3: Calculate the value of the missing angles in the circle below.  	REL 1·4b Gold Outcome 1
Question 4: Express $x^2 - 6x + 7$ in the form $(x + p)^2 + q$.	E+F 1·2c Bronze Outcome 1
Question 5: Solve the following inequality; $2x - 1 < \frac{x + 5}{2}$	REL 1·1c Gold Outcome 2
My score:	

Exam Questions

Question 1:

E+F 1·2b Silver Outcome 3

Factorise

$x^2 + x - 6$. 2

Question 2:

You're on your own!

A car is valued at £3780.
This is 16% less than last year's value.
What was the value of the car last year?

3

Question 3:

REL 1·1c Gold Outcome 1

Solve the equation $\frac{2x}{3} - \frac{5}{6} = 2x$.

Give your answer in its simplest form. 3

Question 4:

E+F 1·1a Silver Outcome 1

Express $\sqrt{12} + 5\sqrt{3} - \sqrt{27}$ as a surd in its simplest form. 3

Question 5:

E+F 1·2a Bronze Outcome 1

In a bakery, a sample of six fruit loaves is selected and the weights, in grams, are recorded.

395 400 408 390 405 402

For the above data the mean is found to be 400 grams.

(a) Calculate the standard deviation.
Show clearly all your working. 3

(b) New methods are introduced to ensure more consistent weights.
Another sample is then taken and the mean and standard deviation found to be 400 grams and 5·8 grams respectively.
Are the new methods successful?
Give a reason for your answer. 1

My score: