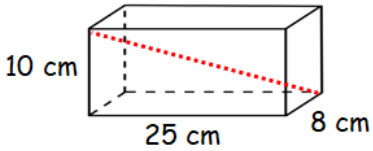
Name:	Date:
Question 1:  For this cuboid, calculate the length of the space diagonal.  	REL 1·4a Silver Outcome 1
Question 2: A function is given as $g(t) = 2t + 11$. For what value of t is $g(t) = 3$?	REL 1·1b Bronze Outcome 2
Question 3: Express $x^2 - 14x + 50$ in the form $(x + a)^2 + b$.	E+F 1·2c Bronze Outcome 1
Question 4:  A car is sold for £12 000. The value of the car depreciates at a rate of 20% for the first year and 11% in the second year. Calculate the value of the car after 2 years. 	APP 1·3a Gold Outcome 3
Question 5: Write down the gradient and the y-intercept of the straight line with the following equation; $5x + 4y = 20$	REL 1·1a Gold Outcome 1
My score:	

Exam Questions

Question 1:

REL 1·5b Silver Outcome 1

Solve the equation

$4\tan x° + 5 = 0, \qquad 0 \leq x \leq 360.$ **3**

Question 2:

REL 1·1c Silver Outcome 2

Solve, algebraically, the inequality

$19 + x > 15 + 3(x - 2).$ **3**

Question 3:

REL 1·1d Gold Outcome 1

Solve algebraically the system of equations

$2x - y = 10$
$4x + 5y = 6.$ **3**

Question 4:

REL 1·3a Silver Outcome 3

Solve the equation

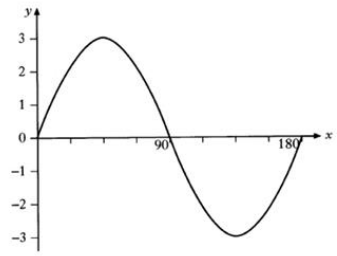
$4x^2 - 7x + 1 = 0$

giving the roots correct to one decimal place. **4**

Question 5:

REL 1·5a Silver Outcome 1

Part of the graph of $y = a\sin bx°$ is shown in the diagram.



State the values of a and b. **2**

My score: