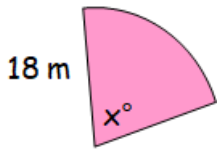
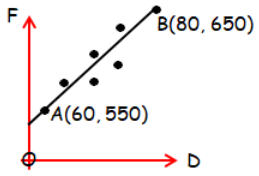
Name:	Date:
Question 1: Solve **algebraically** the system of equations; $3x + 2y = 14$ $5x - 3y = 17$	REL 1·1d Gold Outcome 1
Question 2: The area of this sector is 243·04 m².  What is the size of the angle in the centre? 	E+F 1·4b Gold Outcome 2
Question 3: Calculate the equation of the line of best fit for the following scatter graph.  Give the equation in it's simplest form.	APP 1·4 Bronze Outcome 3
Question 4: Express $x^2 - 6x + 5$ in the form $(x + a)^2 + b$.	E+F 1·2c Bronze Outcome 1
Question 5: Change the subject of the formula to z. $m = n + 4\sqrt{z}$	REL 1·1e Silver Outcome 2
My score:	

Exam Questions

Question 1:

E+F 1·2b Silver Outcome 2

Factorise

$x^2 - 4y^2$. **1**

Question 2:

APP 1·3a Bronze Outcome 3

It is estimated that an iceberg weighs 84 000 tonnes.

As the iceberg moves into warmer water, its weight decreases by 25% each day.

What will the iceberg weigh after 3 days in the warmer water?

Give your answer **correct to three significant figures.** **4**

Question 3:

REL 1·1c Gold Outcome 1

Solve the equation

$\frac{2}{x} + 1 = 6$. **3**

Question 4:

REL 1·1b Silver Outcome 1

REL 1·1b Bronze Outcome 2

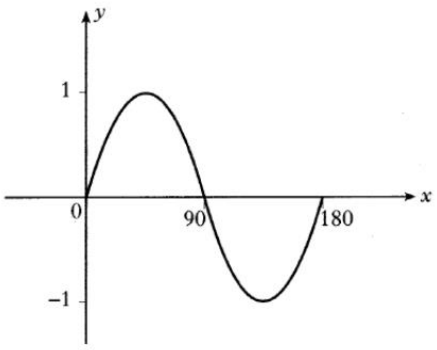
$f(x) = 7 - 4x$

(*a*) Evaluate $f(-2)$. **1**

(*b*) Given that $f(t) = 9$, find t. **2**

Question 5:

REL 1·5a Silver Outcome 1



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

State the value of b. **1**

My score: