Name:	Date:
Question 1:	E+F 1·2c Bronze Outcome 1
Express $x^2 - 10x + 23$ in the form $(x + a)^2 + b$.	
Question 2:	REL 1·1b Bronze Outcome 2
A function is given as $f(x) = 4x + 9$.	
For what value of x is $f(x) = -15$?	
Question 3:	REL 1.3a Gold Outcome 2
Solve the quadratic equation below.	
$2x^2 + 5x + 2 = 0$	
Question 4:	REL 1.5a Silver Outcome 1
For the following trigonometric graph, write down the values of a, b and c.	
y = a cos bx° + c 45	
Question 5:	E+F 1·4b Gold Outcome 2
The area of this sector is 42.84 mm².	
4 mm ×°	
What is the size of the angle in the centre?	
My score:	

Exam Questions 🖓 🐴 🦓



Question 1:

Beth normally cycles a total distance of 56 miles per week.



She increases her distance by 15% each week for the next three weeks.

How many miles will she cycle in the third week?



APP 1.3a Bronze Outcome 2

Question 2:

A straight line has equation y = mx + c, where m and c are constants.

- (a) The point (2, 7) lies on this line. Write down an equation in m and c
- to illustrate this information. (b) A second point (4, 17) also lies on this line. Write down another equation in m and c to
- illustrate this information. (c) Hence calculate the values of m and c.

(d) Write down the gradient of this line.



REL 1.1d Gold Outcome 1

Question 3:

The heights, in centimetres, of seven netball players are given below.

173 176 168 166 170 180 171

For this sample, calculate:

(a) the mean;



APP 1.4 Silver Outcome 2

(b) the standard deviation. Show clearly all your working.

Question 4:

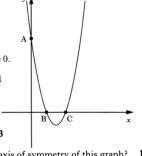
The equation $x^2 - 6x + 8 = 0$ can also be written as (x-2)(x-4)=0.

(a) Write down the roots of the equation $x^2 - 6x + 8 = 0$.

 $y = x^2 - 6x + 8$ is shown. (b) State the coordinates of

the points A, B and C.

Part of the graph of



REL 1.3a Bronze Outcome 2 REL 1.2 Bronze Outcome 3

(c) What is the equation of the axis of symmetry of this graph? 1

REL 1.5a Bronze Outcome 1

Question 5:

Solve the equation





My score: