Name:	Date:
Question 1: Multiply out the following brackets; $3x^2(8x-3)$	E+F 1·2a Gold Outcome 1
Question 2:  A caravan is bought for £19 000 and is expected to decrease in value by 10% p.a. How much is the caravan expected to be worth in 4 years time? 	APP 1·3a Bronze Outcome 3
Question 3: Change the subject of the formula to c. $p=\left(\frac{c}{n}\right)^2+w$	REL 1·1e Silver Outcome 2
Question 4: A function is given as $f(x)=6x+7$. For what value of x is $f(x)=37$?	REL 1·1b Bronze Outcome 2
Question 5: Express $x^2+18x+100$ in the form $(x+a)^2+b$.	E+F 1·2c Bronze Outcome 1
My score:	

Exam Questions

Question 1:

E+F 1·2b Gold Outcome 2

Factorise **fully**

$2x^2 - 18.$ 2

Question 2:

REL 1·1c Gold Outcome 1

Solve the equation

$$2x - \frac{(3x-1)}{4} = 4.$$ 3

Question 3:

You're on your own!

A lead **cube**, of side 10 centimetres, is melted down.

During this process 8% of the metal is lost.

The remaining metal is then made into a **cone**, with radius 8 centimetres.

Calculate the height of this cone.

Give your answer correct to 2 significant figures. 5

Question 4:

REL 1·1a Silver Outcome 1

A straight line is represented by the equation $2y + x = 6$.

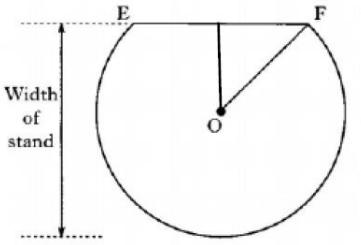
(*a*) Find the gradient of this line. 2

(*b*) This line crosses the y-axis at $(0, c)$. Find the value of c. 1

Question 5:

REL 1·4a Gold Outcome 1

The diagram shows the base of a compact disc stand which has the shape of part of a circle.



- The centre of the circle is O.
- EF is a chord of the circle.
- EF is 18 centimetres.
- The radius, OF, of the circle is 15 centimetres.

Find the width of the stand. 4

My score: