








Name:	Date:
<p>Question 1:</p> <p>Multiply out the following brackets and collect like terms;</p> $(x + 2)(x + 7)$	 E+F 1·2a Bronze Outcome 2
<p>Question 2:</p> <p>Factorise the following expression;</p> $y^2 + 2y - 63$	 E+F 1·2b Silver Outcome 3
<p>Question 3:</p> <p>Factorise the following expression;</p> $6c^2 - 24$	 E+F 1·2b Gold Outcome 2
<p>Question 4:</p> <p>Express $x^2 + 8x + 12$ in the form $(x + p)^2 + q$.</p>	 E+F 1·2c Bronze Outcome 1
<p>Question 5:</p> <div style="display: flex; align-items: center;">  <p>A painting was sold for £247. This was 30% more than it's cost price.</p> </div> <p>What was the painting bought for?</p> <div style="text-align: right;">  </div>	 APP 1·3a Bronze Outcome 1
My score:	

Exam Questions



Question 1:

Multiply out the brackets
and collect like terms.

$$(x - 3)(x^2 + 4x - 1) \quad 3$$



E+F 1·2a Gold Outcome 3

Question 2:

Factorise $9a^2 - 25$. 1



E+F 1·2b Silver Outcome 2

Question 3:

Mark takes some friends out for a meal.
The restaurant adds a 10% service charge
to the price of the meal.

The **total** bill is £148·50.

What was the price of the meal? 3



APP 1·3a Bronze Outcome 1

Question 4:

Express $f(x) = x^2 - 4x + 5$ in
the form $f(x) = (x - a)^2 + b$. 2



E+F 1·2c Bronze Outcome 1

Question 5:

A company makes large bags of crisps
which contain 90 grams of fat.

The company aims to reduce the fat
content of the crisps by 50%.

They decide to reduce the fat content by 20% each year.

Will they have achieved their aim
by the end of the 3rd year?

Justify your answer. 4



APP 1·3a Bronze Outcome 2

My score: