Name:	Date:
Question 1: Multiply out the following brackets and collect like terms; $(x-8)(x^2+4x+3)$	E+F 1·2a Silver Outcome 3
Question 2: Factorise the following expression; $w^2+15w+50$	E+F 1·2b Bronze Outcome 3
Question 3: Express x^2+4x-2 in the form $(x+p)^2+q$.	E+F 1·2c Bronze Outcome 1
Question 4: A bag of sugar weighs 624 grams. This is a 4% increase on the standard bag. What is the weight of the standard bag?	APP 1·3a Bronze Outcome 1
Question 5: Solve the following equation; $2x-1=\frac{x+3}{4}$	REL 1·1c Gold Outcome 1
My score:	

Exam Questions

Question 1:

E+F 1·2a Gold Outcome 2

Multiply out the brackets and collect like terms.

$5x + (x - 4)(3x + 1)$ **3**

Question 2:

E+F 1·2b Silver Outcome 2

Factorise

$x^2 + 2x - 15.$ **2**

Question 3:

APP 1·3a Silver Outcome 2

The population of a city is increasing at a steady rate of 2·4% per annum.

The present population is 528 000.

What is the expected population in 4 years time?

Give your answer to the nearest thousand. **3**

Question 4:

APP 1·3b Gold Outcome 3

Evaluate $3\frac{1}{6} \div 1\frac{2}{3}.$ **2**

Question 5:

REL 1·1c Gold Outcome 1

The cost of hiring a car depends on the number of days the car is hired and the number of litres of petrol used.

(*a*) David hired a car for 3 days and used 50 litres of petrol. The total cost was £88·50.
Let x pounds be the cost per day of hiring a car, and y pounds be the cost of one litre of petrol.
Write down an equation in x and y which satisfies the above condition. **1**

(*b*) Anne hired the same model of car for 4 days and used 60 litres of petrol. The total cost was £113·00.
Write down a second equation in x and y which satisfies this condition. **1**

(*c*) Find the cost per day of hiring the car and the cost of one litre of petrol. **4**

My score: