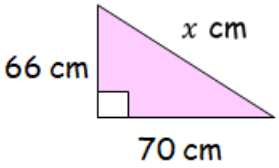
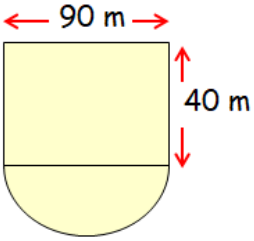
Name:	Date:
1 Increase 180 grams by 25%. 	MNU 407a Bronze Outcome 2
2 How long would it take a coach to travel 112 miles while travelling at an average speed of 40 miles per hour? 	MNU 410a Silver Outcome 4 
3 Calculate the length of the side marked x in the triangle below. 	MTH 416a Bronze Outcome 1 
4 Share £6000 in the ratio of 7 : 2 : 1. 	MNU 408a Silver Outcome 2
5 Calculate the perimeter of this shape. 	MTH 416b Gold Outcome 1 
My score:	

Exam Questions

Question 1:

MTH 415a Silver Outcome 1

Solve algebraically the equation

$8c + 3 = 31 + c.$ **3**

Question 2:

MTH 414a Silver Outcome 1

Multiply out the brackets and simplify

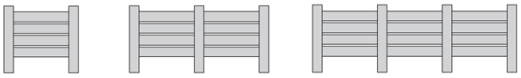
$11n + 4(7 - 2n).$ **2**

Question 3:

MTH 413a Bronze Outcome 1

A children's play area is to be fenced.

The fence is made in sections using lengths of wood, as shown



1 section **2 sections** **3 sections**

(*a*) Complete the table below. **2**

Number of sections (s)	1	2	3	4	5		12
Number of lengths of wood (w)	6	11					

(*b*) Write down a formula for calculating the number of lengths of wood (w), when you know the number of sections (s).

2

(*c*) A fence has been made from 81 lengths of wood.

How many sections are in this fence?

You must show your working. **2**

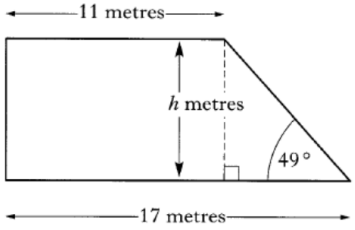
Question 4:

MTH 416a Bronze Outcome 2

Calculate the height, h metres, of the trapezium shown below.

Do not use a scale drawing.

4



Question 5:

MTH 414b Bronze Outcome 1

Factorise $10y - 35.$ **2**

My score: