

Name:	Date:
Find the 'n <sup>th'</sup> term for the following sequence and hence find the 10 <sup>th</sup> term;  7, 11, 15,	MTH 413a Silver Outcome 1
Calculate the length of the side marked x in the triangle below.  x m  23 m  74 m	MTH 416a Silver Outcome 1
	MTH 403c Gold Outcome 1
A new car weighs 3984 lbs.  Unit Abbrev. Metric ounce oz 28·35 g pound lb 453·59 g stone st 6·35 kg  How much is this weight in grams?	MNU 411a Silver Outcome 3
Calculate the surface area of this cuboid.  10 cm 2 cm	MTH 411b Silver Outcome 1
My score:	



# Exam Questions

#### Question 1:

In the Annual Fun Run, Lucy ran 12 kilometres in 1 hour 15 minutes.

Calculate her average speed in kilometres per hour. 3



MNU 410a Bronze Outcome 1

MTH 413a Bronze Outcome 1

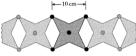


### Question 2:

Jenni is making a wallpaper border.

Complete the table bel	ow.					<b>V V V</b>
Number of stars (s)	1	2	3	4	5	
Number of dots (d)			11			2

- (b) Write down a formula for calculating the number of dots (d), when you know the number of stars (s).
- (c) Each star is 10 centimetres long.



- (i) How many stars does Jenni need?
- (ii) How many dots does she need?

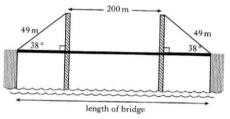
MTH 416a Bronze Outcome 2

## Question 3:

The towers of a bridge are 200 metres apart.

Steel cables of length 49 metres are used to support the bridge at both ends.

The cables make an angle of 38° with the bridge.



Find the total length of the bridge.



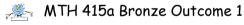


# Question 4:

Solve algebraically the inequality

$$\frac{1}{4}n-2 < 10.$$

2



#### Question 5:

(a) Complete the table below for y = 2x - 5.

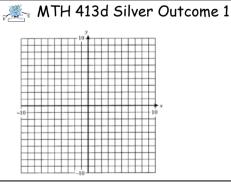
x	-1	0	4
у			

(b) Using the table in part (a), draw the graph of y = 2x - 5on the grid.

2



2



# My score: