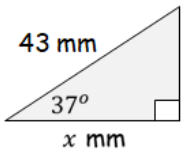
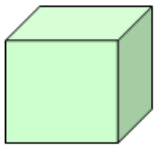
Name:	Date:
1 Decrease 10 metres by 17%.	MNU 407a Bronze Outcome 2
2 The l'arc de triomphe is 164 feet tall. How many metres is this? Unit / Abbrev. / Metric inch / in or " / 2·54 cm foot / ft or ' / 30·48 cm yard / yd / 91·44 cm mile / mi or m / 1·61 km	MNU 411a Gold Outcome 2
3 Calculate $\sqrt{(100-19)}$	MTH 403c Gold Outcome 1
4 Calculate the length of the side marked x in the triangle below. 	MTH 416a Bronze Outcome 2
5 Calculate the surface area of this cube. 	MTH 411b Bronze Outcome 1
My score:	

Exam Questions

Question 1:

MTH 415a Bronze Outcome 2

Solve algebraically the inequality

$7c + 13 < 55.$ **2**

Question 2:

MTH 406b Gold Outcome 3

The thickness of a hair on Robbie's head is 0·00254 centimetres.

Write 0·00254 in scientific notation. **2**

Question 3:

MTH 414b Gold Outcome 1

Factorise $6ab - 7bc.$ **1**

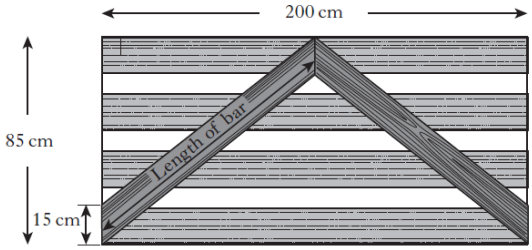
Question 4:

MNU 416a Bronze Outcome 1

A wooden gate is 85 centimetres high and 200 centimetres wide.

The gate is strengthened by two bars which meet half-way across the gate as shown.

The ends of each bar measure 15 centimetres.



Calculate the length of **one** of the bars.

Do not use a scale drawing. **4**

Question 5:

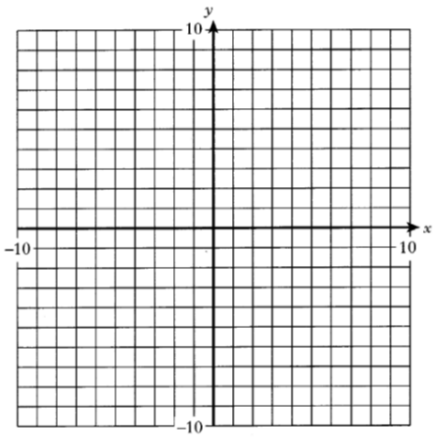
MTH 413d Gold Outcome 1

(*a*) Complete the table below for $y = 0{\cdot}5x + 3$.

x	–8	0	4
y			

2

(*b*) Draw the line $y = 0{\cdot}5x + 3$ on the grid. **2**



My score: