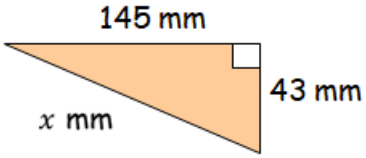
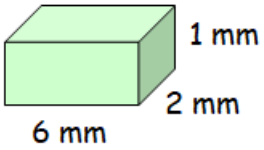
Name:	Date:
1 Decrease $900 by 23%.	MNU 407a Bronze Outcome 2
2 Calculate $10^2 - 6^2$	MTH 403c Gold Outcome 1
3 Calculate the length of the side marked x in the triangle below. 	MTH 416a Bronze Outcome 2
4 A clock is 85 inches tall. How many centimetres is this? 	MNU 411a Silver Outcome 2
5 Calculate the surface area of this cuboid. 	MTH 411b Silver Outcome 1
My score:	

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

Exam Questions

Question 1:

MTH 415a Bronze Outcome 2

Solve algebraically the inequality

$\frac{1}{2}y + 3 > 13.$ **2**

Question 2:

MTH 406b Gold Outcome 1

Europe is the world's second smallest continent.

Its area is approximately 10 400 000 square kilometres.

Write this number in scientific notation. **2**

Question 3:

MTH 414b Bronze Outcome 1

Factorise $21 - 7t.$ **2**

Question 4:

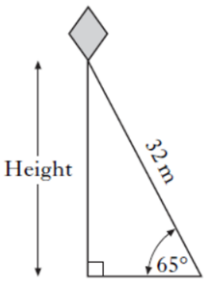
MTH 416a Bronze Outcome 2

Kate is flying a kite.
She lets out 32 metres of string, pulled tight, at 65° to the ground.

Calculate the height of the kite as shown in the diagram.

Do not use a scale drawing.

3



Question 5:

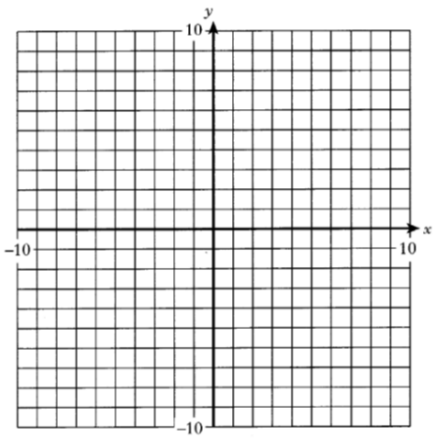
MTH 413d Gold Outcome 1

(a) Complete the table below for $y = \frac{1}{2}x + 1$.

x	−8	0	6
y			

2

(b) Draw the line $y = \frac{1}{2}x + 1$ on the grid. **2**



My score: