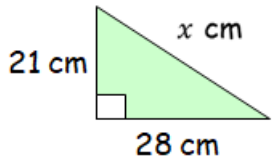
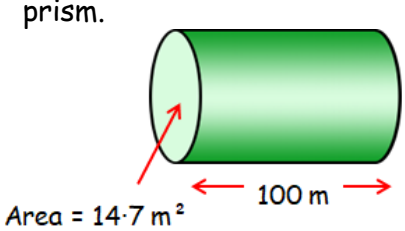
Name:	Date:
1 Calculate the length of the side marked x in the triangle below.  	MTH 416a Bronze Outcome 1
2 Calculate the volume of this prism.  	MTH 411c Bronze Outcome 1
3 A can of soup contains 10 oz. What is this weight in grams?	MNU 411a Silver Outcome 3
4 Katie scored 12 out of 35 in a recent English test. What was her percentage?	MNU 407a Bronze Outcome 3
5 Calculate $(16 + 56) \div 8$	MTH 403c Silver Outcome 1
My score:	

Unit	Abbrev.	Metric
ounce	oz	28·35 g
pound	lb	453·59 g
stone	st	6·35 kg

Exam Questions

Question 1:

MTH 414a Silver Outcome 1

Multiply out the brackets and simplify

$4(5u - 2) + 15.$ **2**

Question 2:

MTH 415a Silver Outcome 1

Solve algebraically the equation

$11 + 5x = 2x + 29.$ **3**

Question 3:

MTH 413a Bronze Outcome 1

Samira is designing a chain belt.

Each section of the belt is made from metal rings as shown

1 section, 4 rings 2 sections, 9 rings 3 sections

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

Number of sections (s)	1	2	3	4	5		11
Number of metal rings (r)	4	9					

(*b*) Write down a formula for calculating the number of rings (r), when you know the number of sections (s). **2**

(*c*) Samira uses 79 rings to make her belt.
How many sections does her belt have? **2**

Question 4:

MTH 414b Bronze Outcome 1

Factorise $8d + 12.$ **2**

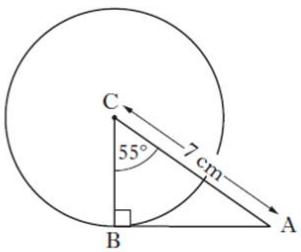
Question 5:

MTH 416a Bronze Outcome 2

ABC is a right-angled triangle.

B lies on the circumference of a circle with centre C.

The length of AC is 7 centimetres and the size of angle ACB is 55°.



Calculate the length of the diameter of the circle.

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

My score: