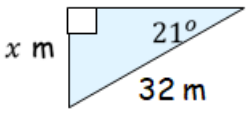
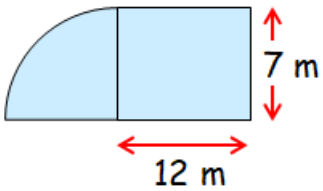
Name:	Date:
1 Find the 'nth' term for the following sequence and hence find the 10th term; 6, 13, 20, ...	MTH 413a Silver Outcome 1
2 The distance from Glasgow to Paris is 681 miles. What is this in kilometres? | Unit	Abbrev.	Metric | |---|---|---| | inch | in or " | 2·54 cm | | foot | ft or ' | 30·48 cm | | yard | yd | 91·44 cm | | mile | mi or m | 1·61 km |	MNU 411a Silver Outcome 2
3 Calculate the length of the side marked x in the triangle below.  	MTH 416a Bronze Outcome 2
4 The weather forecast predicts a 9 in 60 chance of rain. It also predicts a 14 in 80 chance of snow. According to the weather forecast, is it more likely to rain or snow? You must give a reason your answer. You MUST give a reason for your answer!	MNU 422a Gold Outcome 1
5 Calculate the area of this shape.  	MTH 416b Gold Outcome 2
My score:	

Exam Questions

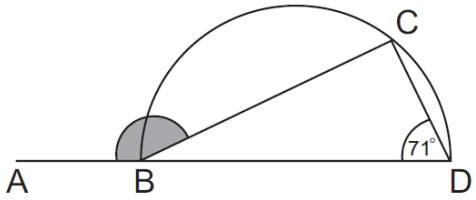
Question 1:

MTH 414b Bronze Outcome 1

Factorise $14 - 63g$. **2**

Question 2:

MTH 417a Silver Outcome 1



The diagram above shows a semi-circle with BD as diameter.

- C lies on the circumference
- In triangle BCD, angle CDB is 71°
- AD is a straight line

Calculate the size of the shaded angle ABC. **3**

Question 3:

MTH 415a Silver Outcome 1

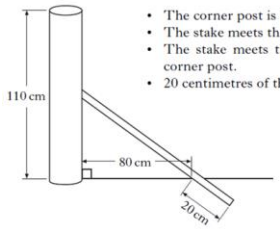
Solve algebraically the equation

$$5y + 19 = 61 - 2y.$$ **3**

Question 4:

MTH 416a Bronze Outcome 1

A farmer is building a wire fence around a field.
The fence has heavy posts at the corners.
Each corner post is supported by a stake as shown in the diagram.



- The corner post is 110 centimetres high.
- The stake meets the corner post halfway up.
- The stake meets the ground 80 centimetres from the foot of the corner post.
- 20 centimetres of the stake is below ground level.

Calculate the length of the stake.
Do not use a scale drawing. 4

Question 5:

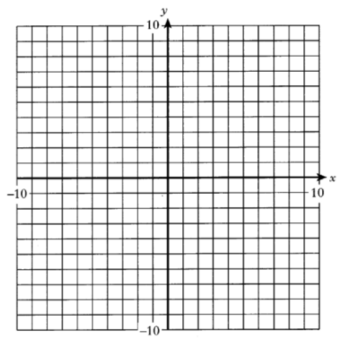
MTH 413d Silver Outcome 1

(a) Complete the table below for $y = 3 + 2x$.

x	–4	0	2
y			

2

(b) Draw the line $y = 3 + 2x$ on the grid. **2**



My score: