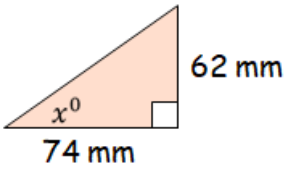
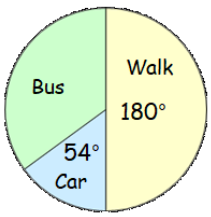
Name:	Date:
1 Increase 770 litres by 30%. 	MNU 407a Bronze Outcome 2
2 Calculate the size of the angle marked x in the triangle below. 	MTH 416a Silver Outcome 2 
3 Share €560 in the ratio of 4 : 1 : 3. 	MNU 408a Silver Outcome 2
4 A helicopter travels 216 kilometres over a time period 2 hours 42 mins.  What was its average speed?	MNU 410a Silver Outcome 3 
5 In a survey, 380 pupils were asked how they travel to school. The results are shown in the pie chart.   How many pupils travelled by bus?	MNU 420a Gold Outcome 1 
My score:	

Exam Questions

Question 1:

MTH 414a Silver Outcome 1

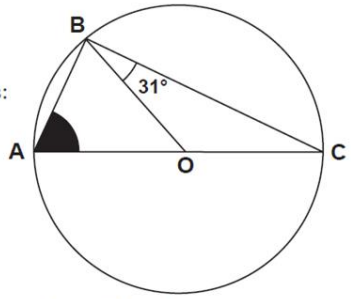
Multiply out the brackets and simplify

$$4(5u + 11) + 3(1 - 2u).$$ 3

Question 2:

MTH 417a Silver Outcome 1

The diagram shows:



- AC is a diameter of a circle with centre O
- B lies on the circumference
- angle OBC = 31°.

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

Question 3:

MTH 415a Bronze Outcome 2

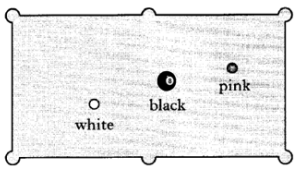
Solve algebraically the inequality

$$4t - 7 > 29.$$ 2

Question 4:

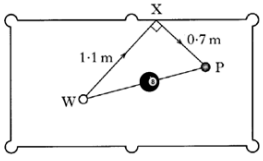
MTH 416a Bronze Outcome 1

Stephen is playing snooker.
The diagram below shows the positions of three balls on the table.



Stephen plays the white ball, W.
It bounces off the side of the table at X and hits the pink ball, P.

- Distance WX is 1·1 metres
- Distance XP is 0·7 metres
- Angle WXP is 90°



Calculate distance WP.
Do not use a scale drawing. **3**

Question 5:

MTH 314a Gold Outcome 2

Use the formula below to find the value of h when t = 3.

$$h = 20 - 4t^2$$ **3**

My score: