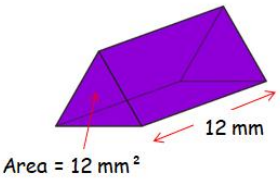
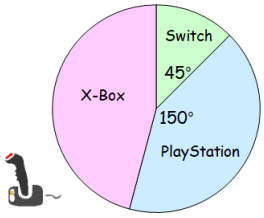
Name:	Date:
1 Find the 'nth' term for the following sequence and hence find the 10th term; 4, 7, 10, ...	MTH 413a Silver Outcome 1
2 Grandpa Joe lives 8·4 miles from the town centre. How long would it take him to get there if he travelled at an average speed of 6 miles per hour in his electric scooter?	MNU 410a Silver Outcome 2
3 Mount Kilimanjaro is 19 341 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
4 Calculate the volume of this prism.  	MTH 411c Bronze Outcome 1
5 In a survey, 408 children were asked what their favourite games console was. The results are shown in the pie chart below.  How many children preferred the X-Box?	MNU 420a Gold Outcome 3
My score:	

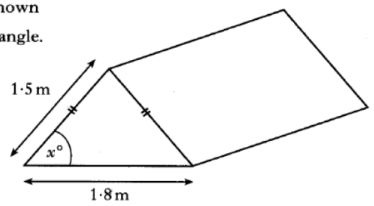
Exam Questions

Question 1:

MTH 416a Silver Outcome 2

The front of the tent shown below is an isosceles triangle.

The size of the angle between the side and the bottom of the tent is $x°$.



Calculate x. **4**

Question 2:

MTH 413d Silver Outcome 1

(*a*) Complete the table below for $y = \frac{1}{3}x + 2$.

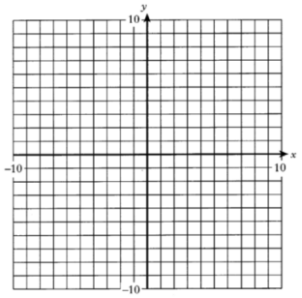
x	−9	0	6
y			

2

(*b*) Draw these two lines on the grid:

(i) $y = \frac{1}{3}x + 2$; **2**

(ii) $x = 4$. **1**



Question 3:

MTH 420b Gold Outcomes 2 & 3

The attendances at six football matches are listed below.

7000 10 000 64 000 11 000 10 000 12 000

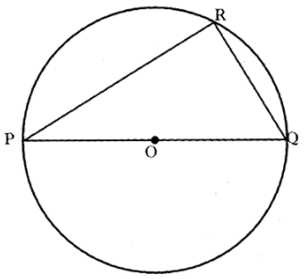
(*a*) Find the mean attendance. **2**

(*b*) Find the median attendance. **2**

(*c*) Which of the averages gives a truer picture of the above attendances — the mean or the median?
Give a reason for your answer. **1**

Question 4:

MTH 416a Bronze Outcome 1



PQ is a diameter of the circle with centre O.
R is a point on the circumference of the circle.
PR is 12 centimetres.
RQ is 5·5 centimetres.
Calculate the length of the radius of the circle. **4**

Question 5:

MTH 414a Silver Outcome 1

Multiply out the brackets and simplify

$7(2a + 1) - 3a$. **2**

My score: