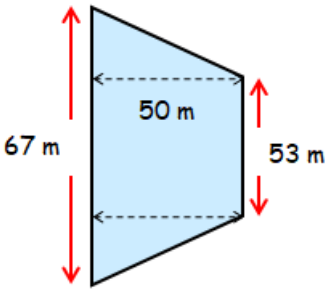
Name:	Date:
1 Cans of fizzy juice are sold in packs of 8. A factory aims to produce 4584 cans of fizzy juice. How many packs is this? 	MNU 403a Bronze Outcome 1
2 Calculate $\sqrt[3]{216}$	MTH 406a Bronze Outcome 2 
3 Construct an ordered stem and leaf diagram for the information below.  **Ages of people at a concert** 69 54 39 25 22 16 56 44 47 34 55 27 24 53 41 31	MTH 421a Silver Outcome 2
4 A rocket flies 4365 kilometres in 9 hrs 42 mins. What is its average speed? 	MNU 410a Silver Outcome 3 
5 Calculate the area of this trapezium. 	MNU 411a Gold Outcome 1 
My score:	

Exam Questions

Question 1:

MTH 415a Silver Outcome 1

Solve algebraically the equation

$$5x + 1 = x + 7.$$ **3**

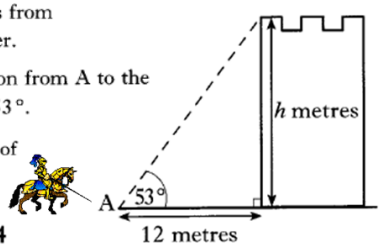
Question 2:

MTH 416a Bronze Outcome 2

Point A is 12 metres from the bottom of a tower.

The angle of elevation from A to the top of the tower is 53°.

Calculate the height of the tower, h metres, correct to 1 decimal place. **4**



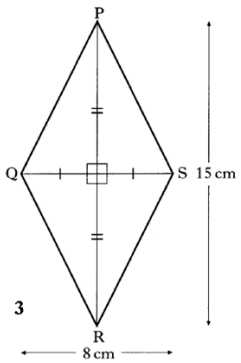
Question 3:

MTH 416a Bronze Outcome 1

PQRS is a rhombus.

The diagonals PR and QS are 15 centimetres and 8 centimetres long as shown.

Calculate the length of side PQ.
Do not use a scale drawing. **3**



Question 4:

MTH 420b Silver Outcomes 3 & 4

The scores of 12 golfers in a competition were as follows.

67	70	68	75	71	70
70	75	76	75	74	75

(*a*) Find the modal score. **1**

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

Question 5:

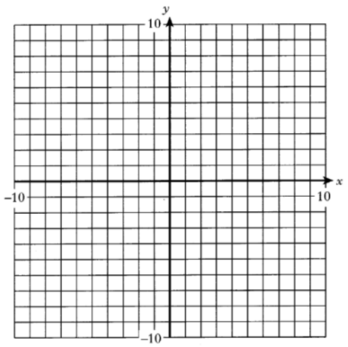
MTH 413d Silver Outcome 1

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

x	−2	0	3
y			

2

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



2

My score: