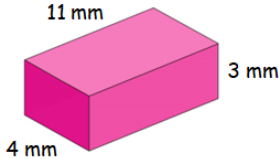



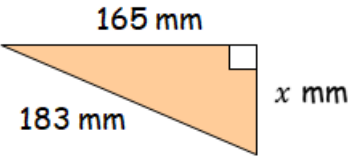












Name:	Date:															
<p>1 Calculate the volume of this prism.</p> 	 MTH 411c Silver Outcome 1															
<p>2 Calculate</p> $\sqrt[5]{243}$	 MTH 406a Bronze Outcome 2 															
<p>3 Calculate the length of the side marked x in the triangle below.</p> 	 MTH 416a Silver Outcome 1 															
<p>4 The Nou Camp pitch is 115 yards long. How long is this in metres?</p> <table border="1" data-bbox="225 1261 453 1413"> <thead> <tr> <th>Unit</th><th>Abbrev.</th><th>Metric</th></tr> </thead> <tbody> <tr> <td>inch</td><td>in or "</td><td>2.54 cm</td></tr> <tr> <td>foot</td><td>ft or '</td><td>30.48 cm</td></tr> <tr> <td>yard</td><td>yd</td><td>91.44 cm</td></tr> <tr> <td>mile</td><td>mi or m</td><td>1.61 km</td></tr> </tbody> </table> 	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 
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														
<p>5 How far did a bus travel in 2 hour 6 mins when its average speed during this time was 50 kilometres per hour?</p> 	 MNU 410a Silver Outcome 2 															
My score:																



Exam Questions

Question 1:

Solve algebraically the equation

$$4x + 11 = 46 - x.$$

3



MTH 415a Silver Outcome 1

Question 2:

Multiply out the brackets and simplify

$$3y + 2(x - 4y).$$

2



MTH 414a Silver Outcome 1

Question 3:

A ladder which is 5.2 metres long is placed against a wall.

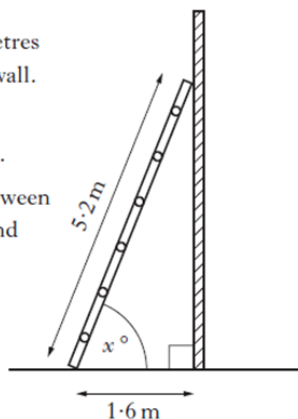
The foot of the ladder is 1.6 metres from the wall.

The size of the angle between the ladder and the ground is x° .

Calculate x .

Do not use a scale drawing.

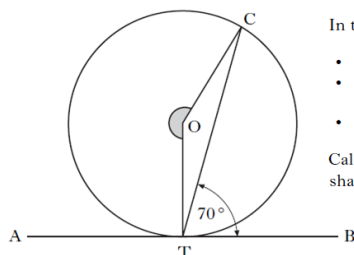
3



MTH 416a Silver Outcome 2



Question 4:



In the diagram above:

- O is the centre of the circle
- AB is a tangent to the circle at T
- angle BTC = 70° .

Calculate the size of the shaded angle TOC.

3



MNU 417a Gold Outcome 1

Question 5:

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

x	-2	0	3
y			

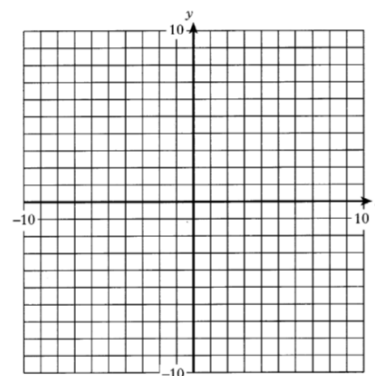
2

(b) Using the table in part (a), draw the graph of $y = 3x - 2$ on the grid.

2



MTH 413d Silver Outcome 1



My score: