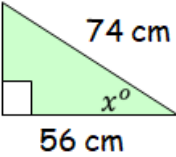










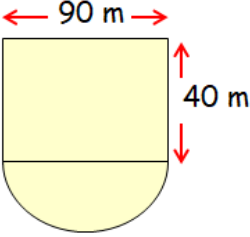






<b>Name:</b>	<b>Date:</b>												
<p><b>1</b> Calculate the size of the angle marked <math>x</math> in the triangle below.</p> 	<p> MTH 416a Silver Outcome 2</p> 												
<p><b>2</b> Calculate</p> <p><math>5^9</math></p>	<p> MTH 406a Bronze Outcome 1</p> 												
<p><b>3</b> Plane 1 has a 6 in 12 chance of arriving late. Plane 2 has a 2 in 5 chance of being late.</p> <p>Which plane is more likely to not arrive on time?</p> <p>You must give a reason your answer.</p> 	<p> MNU 422a Gold Outcome 1</p> 												
<p><b>4</b> A pig weighs 350 lbs. What is this weight in grams?</p> <table border="1" data-bbox="220 1328 536 1485"> <thead> <tr> <th>Unit</th> <th>Abbrev.</th> <th>Metric</th> </tr> </thead> <tbody> <tr> <td>ounce</td> <td>oz</td> <td>28.35 g</td> </tr> <tr> <td>pound</td> <td>lb</td> <td>453.59 g</td> </tr> <tr> <td>stone</td> <td>st</td> <td>6.35 kg</td> </tr> </tbody> </table> 	Unit	Abbrev.	Metric	ounce	oz	28.35 g	pound	lb	453.59 g	stone	st	6.35 kg	<p> MNU 411a Silver Outcome 3</p> 
Unit	Abbrev.	Metric											
ounce	oz	28.35 g											
pound	lb	453.59 g											
stone	st	6.35 kg											
<p><b>5</b> Calculate the area of this shape.</p> 	<p> MTH 416b Gold Outcome 2</p> 												
<b>My score:</b>													





# Exam Questions

Question 1:

Multiply out the brackets and simplify

$$4(2 - 3x) + 5(4x + 1).$$

3



MTH 414a Silver Outcome 1

Question 2:

Factorise  $24 - 18k.$

2



MTH 414b Bronze Outcome 1

Question 3:

Solve algebraically the equation

$$7p - 2 = 54 + 3p.$$

3

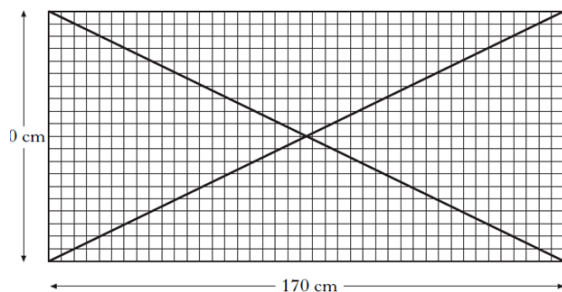


MTH 415a Silver Outcome 1

Question 4:

A rectangular metal grill for a window is shown below.

Two diagonal metal bars strengthen the grill.



Find the length of one of the metal bars.

Round your answer to the nearest centimetre.

Do not use a scale drawing.

4



MTH 416a Bronze Outcome 1



Question 5:

(a) Complete the table below for  $y = 2.5x - 3.$

$x$	-2	0	2	4
$y$			2	

2

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

(i)  $y = 2.5x - 3;$

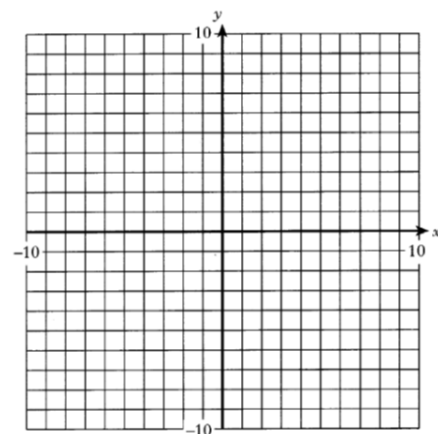
2

(ii)  $y = 3.$

1



MTH 413d Gold Outcome 1



My score: