






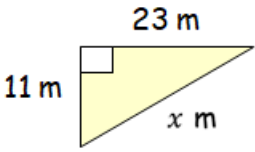


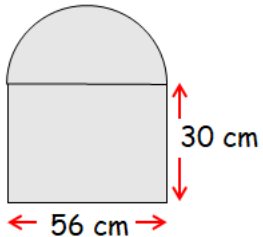






Name:	Date:
<p><b>1</b> Calculate</p> $\sqrt[6]{531\,441}$	<p> MTH 406a Bronze Outcome 2</p> 
<p><b>2</b> 2 cleaners take 12 hours to clean a school. How long would it take 8 cleaners working at the same rate?</p> 	<p> MNU 408a Silver Outcome 1</p>
<p><b>3</b> How long would it take a scooter to travel 42 miles while travelling at an average speed of 20 miles per hour?</p> 	<p> MNU 410a Silver Outcome 4</p> 
<p><b>4</b> Calculate the length of the side marked <math>x</math> in the triangle below.</p> 	<p> MTH 416a Bronze Outcome 1</p> 
<p><b>5</b> Calculate the area of this shape.</p> 	<p> MTH 416b Gold Outcome 2</p> 
My score:	



# Exam Questions

Question 1:

Factorise  $21 - 14m$ . 2



MTH 414b Bronze Outcome 1

Question 2:

Solve algebraically the equation

$$3t + 60 = 11t + 4.$$
 3



MTH 415a Silver Outcome 1

Question 3:

The space shuttle programme costs \$5800 million.



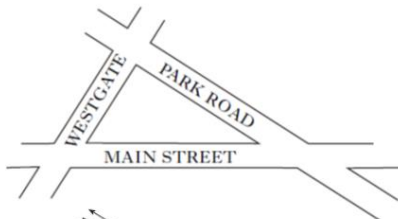
Write this number in scientific notation. 2



MTH 406b Silver Outcome 1

Question 4:

Three roads form a right angled triangle as shown in the diagram.



- Main Street is 200 metres long.
- Park Road is 170 metres long.
- The angle between Westgate and Park Road is  $90^\circ$ .

The size of the angle between Main Street and Park Road is  $x^\circ$ . Calculate  $x$ .

Give your answer to one decimal place.

4



MTH 416a Silver Outcome 2



Question 5:

(a) Complete the table below for  $y = 1.5x - 1$ .

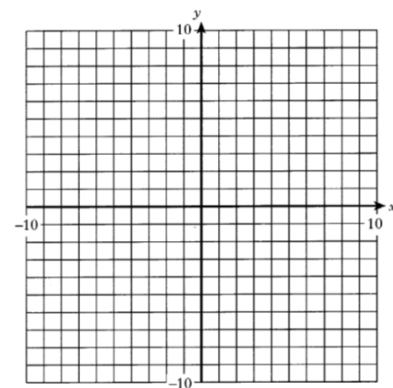
$x$	-2	0	6
$y$			

2

(b) Draw the line  $y = 1.5x - 1$  on the grid. 2



MTH 413d Gold Outcome 1



My score: