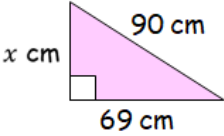

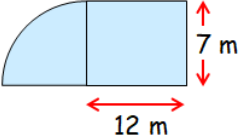

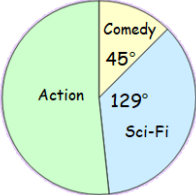

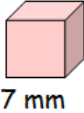






Name:	Date:
<p>1 Calculate the length of the side marked x in the triangle below.</p> 	<p>MTH 416a Silver Outcome 1</p> 
<p>2 Calculate the perimeter of this shape.</p> 	<p>MTH 416b Gold Outcome 1</p> 
<p>3 In a survey, 840 people were asked their favourite genre of film. Their results are shown in the pie chart below.</p>  <p>How many people preferred action films?</p>	<p>MNU 420a Gold Outcome 1</p> 
<p>4 Calculate the surface area of this cube.</p> 	<p>MTH 411b Bronze Outcome 1</p>
<p>5 How long did a train take to travel 294 miles at an average speed of 70 miles per hour?</p> 	<p>MNU 410a Silver Outcome 4</p> 
My score:	



Exam Questions

Question 1:

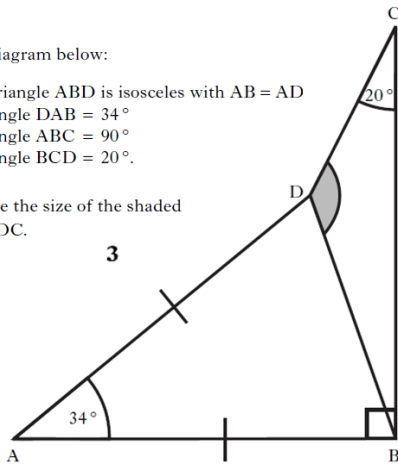


MTH 417a Gold Outcome 1

In the diagram below:

- triangle ABD is isosceles with $AB = AD$
- angle $DAB = 34^\circ$
- angle $ABC = 90^\circ$
- angle $BCD = 20^\circ$.

Calculate the size of the shaded angle BDC.



Question 2:



MTH 415a Bronze Outcome 2

Solve algebraically the inequality

$$2m - 3 < 75.$$

2

Question 3:



MTH 414a Silver Outcome 1

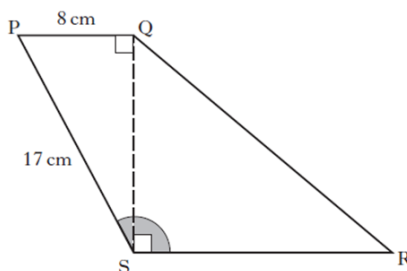
Multiply out the brackets and simplify

$$3(5p + 3) - 2p.$$

2

Question 4:

In shape PQRS, side PQ is 8 centimetres and side PS is 17 centimetres as shown.



Calculate the size of the shaded angle PSR.

Do not use a scale drawing.

4



MTH 416a Silver Outcome 2



Question 5:



MTH 413d Bronze Outcome 1

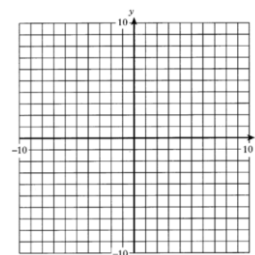
(a) Complete the table below for $y = 3 - x$.

x	-2	2	7
y			

2

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

2



My score: