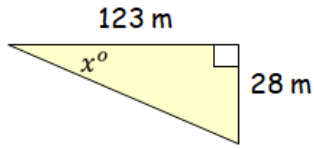




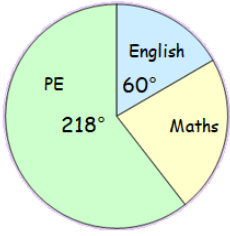












Name:	Date:
<p>1 Calculate the size of the angle marked x in the triangle below.</p> 	<p> MTH 416a Silver Outcome 2</p> 
<p>2 Divide £35 in the ratio of 2 : 3.</p> 	<p> MNU 408a Bronze Outcome 2</p>
<p>3 In a survey, 900 pupils were asked their favourite subject at school is. The results are shown in the pie chart below.</p>  <p>How many pupils preferred Maths?</p>	<p> MNU 420a Gold Outcome 1</p> 
<p>4 Mia scored 48 out of 60 in a recent geography test. What was her percentage?</p> 	<p> MNU 407a Bronze Outcome 3</p> 
<p>5 How far did a plane travel in 5 hours 54 mins when its average speed during this time was 300 miles per hour?</p> 	<p> MNU 410a Silver Outcome 2</p> 
My score:	



Exam Questions

Question 1:

Multiply out the brackets and simplify

$$13x + 6(2y - x).$$

2



MTH 414a Silver Outcome 1

Question 2:

Solve algebraically the equation

$$5n + 9 = 51 - 2n.$$

3

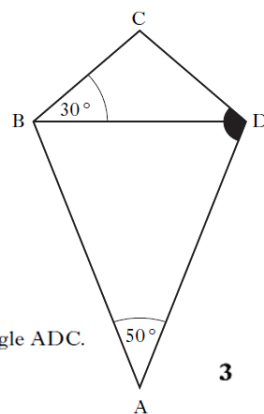


MTH 415a Silver Outcome 1

Question 3:

In the diagram:

- ABCD is a kite
- Angle DAB = 50°
- Angle DBC = 30°



Calculate the size of shaded angle ADC.

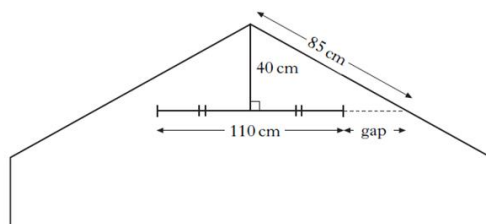
3



MTH 417a Silver Outcome 1

Question 4:

The diagram below shows the position of a ceiling fan in a conservatory.



- The fan is 40 centimetres below the top of the conservatory.
- The sloping roof measures 85 centimetres to the level of the fan.
- The fan measures 110 centimetres across.

Calculate the size of the gap between the edge of the fan and the sloping roof.

Do not use a scale drawing.

4



MTH 416a Silver Outcome 1



Question 5:

Factorise $20s + 45.$

2



MTH 414b Bronze Outcome 1

My score: