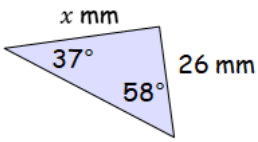
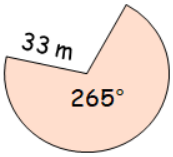
Name:	Date:
Question 1: Calculate the missing side in this triangle;  	APP 1·1 Bronze Outcome 2
Question 2: Solve **algebraically** the system of equations; $2x + 3y = 11$ $5x - 2y = 18$	REL 1·1d Gold Outcome 1
Question 3: Calculate the length of the major arc below with radius 33 metres.  	E+F 1·4b Silver Outcome 1
Question 2: Calculate the discriminant and determine the nature of the roots for the following quadratic equation. $6x^2 - 9x + 2 = 0$	REL 1·3b Bronze Outcome 1
Question 5: Evaluate; $4\frac{1}{2} \times 1\frac{3}{4}$	APP 1·3b Gold Outcome 2
My score:	

Exam Questions

Question 1:

Last year, 1296 learner drivers from "Topflight" school of motoring passed their driving test.

This was 72% of those who sat their driving test from Topflight.

How many **failed** their driving test? 3

You're on your own!

Question 2:

Change the subject of the formula to s.

$$t = \frac{7s+4}{2}.$$ 3

REL 1·1e Silver Outcome 2

Question 3:

Simplify $\frac{m^5}{m^3}$. 1

E+F 1·1b Bronze Outcome 1

Question 4:

The results for a group of students who sat tests in mathematics and physics are shown below.

Mathematics (%)	10	18	26	32	49
Physics (%)	25	35	30	40	41

(*a*) Calculate the standard deviation for the mathematics test. 4

(*b*) The standard deviation for physics was 6·8.
Make an appropriate comment on the distribution of marks in the two tests. 1

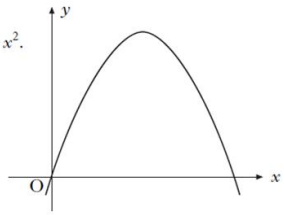
APP 1·4 Bronze Outcome 2

Question 5:

The graph shown below is part of the parabola with equation $y = 8x - x^2$.

(*a*) By factorising $8x - x^2$, find the roots of the equation

$8x - x^2 = 0$. 2



(*b*) State the equation of the axis of symmetry of the parabola. 1

(*c*) Find the coordinates of the turning point. 2

REL 1·3a Silver Outcome 2
REL 1·2 Gold Outcome 3

My score: