Name:	Date:
Question 1: Solve **algebraically** the system of equations; $7x + 2y = 9$ $8x + 3y = 1$	REL 1·1d Gold Outcome 1
Question 2: The population of a city is expected to decrease by 4·25% p.a. The population currently stands at 432 000. What is it expected to be after 5 years? Round your answer to the nearest 1000.	APP 1·3a Silver Outcome 3
Question 3: Find the equation of the line joining the points (1, 8) and (3, 6). Give the equation in it's simplest form.	REL 1·1a Silver Outcome 2
Question 4: Calculate the missing side in this triangle; x mm, 42 mm, 64 mm, 57°	APP 1·1 Bronze Outcome 3
Question 5: A function is given as $f(m) = 5 - 3m$. For what value of m is $f(m) = 11$?	REL 1·1b Bronze Outcome 2
My score:	

Exam Questions

Question 1:

REL 1·3a Gold Outcome 3

Solve the equation $5x^2 + 4x - 2 = 0$, giving the roots correct to 2 decimal places. **4**

Question 2:

APP 1·3b Gold Outcome 3

Evaluate $1\frac{5}{6} \div \frac{3}{4}$.

Give your answer in its simplest form. **2**

Question 3:

REL 1·1c Gold Outcome 1

Solve the equation $\frac{x}{2} - 1 = \frac{3-x}{5}$. **3**

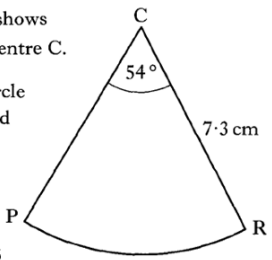
Question 4:

E+F 1·4b Bronze Outcome 2

The diagram below shows a sector of a circle, centre C.

The radius of the circle is 7·3 centimetres and angle PCR is 54°.

Calculate the area of the sector PCR. **3**

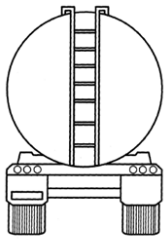


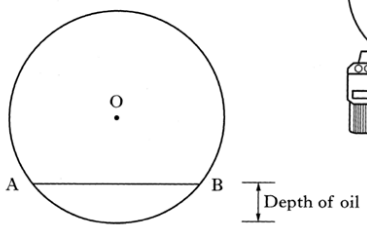
Question 5:

REL 1·4a Gold Outcome 1

A tanker delivers oil to garages.

The tank has a circular cross-section as shown in the diagram below.





The radius of the circle, centre O, is 1·9 metres.

The width of the surface of the oil, represented by AB in the diagram, is 2·2 metres.

Calculate the depth of the oil in the tanker. **4**

My score: