Name:	Date:
Question 1:	APP 1·3a Bronze Outcome 3
A car decreases in value by 6% p.a.	
The car cost £7000.	
How much will it be worth in 3 years time?	
Question 2:	E+F 1·2b Silver Outcome 3
Factorise the following expression;	
$r^2 - 3r - 28$	
Question 3:	REL 1·1e Gold Outcome 1
Change the subject of the formula to \emph{c} .	
$g = \sqrt{\frac{15}{c}}$	
Question 4:	REL 1·1a Silver Outcome 2
Find the equation of the line joining the points (3, 1) and (5, 11).	
Give the equation in it's simplest form.	
Question 5:	REL 1·1c Gold Outcome 1
Solve the following equation;	
$\frac{4x-1}{3} = \frac{1}{5}$	
My score:	

Question 1:

· A, B and C are points on the circumference of a circle, centre O. · CD is a tangent to the circle. • Angle BCD = 25°. Calculate the size of angle BAC.

Show all working. 3

Exam Questions AAA REL 1.4b Gold Outcome 1

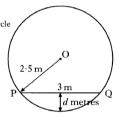


The diagram below shows a circular cross-section of a

In the figure below.

- · O represents the centre of the circle
- · PQ represents the surface of the oil in the tank
- PQ is 3 metres
- the radius OP is 2.5 metres.

Find the depth, d metres,



REL 1.4a Gold Outcome 1

Question 3:

Suzie has a new mobile phone. She is charged x pence per minute for calls and y pence for each text she sends. During the first month her calls last a



REL 1.1d Gold Outcome 1

total of 280 minutes and she sends 70 texts. Her bill is £,52.50. (a) Write down an equation in x and y

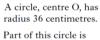
which satisfies the above condition. The next month she reduces her bill. She restricts her calls

to 210 minutes and sends 40 texts. Her bill is £38.00.

- (b) Write down a second equation in x and y which satisfies this condition.
- (c) Calculate the price per minute for a call and the price for each text sent.

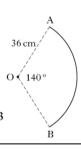


Question 4:



shown. Angle AOB = 140°.

Calculate the length of arc AB.





E+F 1.4b Silver Outcome 1

Question 5:

Express $\frac{2}{x} + \frac{4}{x+3}$, $x \neq 0$, $x \neq -3$, as a

single fraction in its simplest form.



E+F 1·3 Gold Outcome 2

My score: