Name:	Date:
Question 1:	REL 1.5b Bronze Outcome 1
Solve the following trig equation;	
$8 \sin x^{\circ} - 3 = 2$, $0 \le x \le 360^{\circ}$	
Question 2:	APP 1·3b Gold Outcome 3
	7 ATT 1 3D GOIG GUICOINE 3
Evaluate; $1\frac{1}{4} \div 3\frac{2}{7}$	
Question 3:	APP 1·2a Gold Outcome 2
A house bought for £230 000.	
The value of the house appreciates at	
the rate of 14% for the first year and 3% in the second year.	
Calculate the value of the	
house after 2 years.	
Question 4:	E+F 1·3 Gold Outcome 1
Express this fraction in it's simplest form.	
$\frac{8x + 24}{x^2 + x - 6}$	
$x^2 + x - 6$	
Question 5:	REL 1·1a Gold Outcome 1
Write down the gradient and the	
y-intercept of the straight line	
with the following equation;	
3y - 3x = 18	
My score:	

Exam Questions A A A

Question 1:

Multiply out the brackets and collect like terms.

$$(3x+2)(x^2+5x-1)$$
 3

Question 2:

Solve algebraically the system of equations

$$2x - 5y = 24$$

$$7x + 8y = 33$$
.

3

24 cm

REL 1.1d Gold Outcome 1

E+F 1·2a Gold Outcome 3

$$7x + 8y = 33$$
.

Question 3:

$$P = \frac{2(m-4)}{3}$$

Change the subject of the

formula to m.



REL 1.1e Silver Outcome 2

Question 4:

A glass ornament in the shape of a cone is partly filled with coloured water.



30 centimetres. The water is

16 centimetres deep and measures 10 centimetres across the top.

What is the volume of the water?

Give your answer correct to 2 significant figures. 5

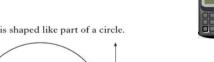
16 cm



E+F 1.4c Silver Outcome 2

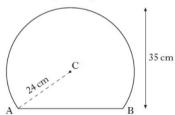
Question 5:

A mirror is shaped like part of a circle.





REL 1.4a Gold Outcome 1



The radius of the circle, centre C, is 24 centimetres. The height of the mirror is 35 centimetres.

Calculate the length of the base of the mirror, represented in the diagram by AB.

10 cm

30 cm

My score: