Name:	Date:
Question 1: Multiply the following fractions giving your answer in it's simplest form. $\frac{12}{5v^3} \times \frac{2v}{3}$	E+F 1·3 Gold Outcome 3
Question 2: Solve **algebraically** the system of equations; $3x + 2y = 14$ $2x + 3y = 1$	REL 1·1d Gold Outcome 1
Question 3: Max put his £60 birthday money into a savings account on his 16th birthday. He will receive 0·5% interest p.a. How much will he have in his account on his 21st birthday?	APP 1·3a Silver Outcome 2
Question 4: Write down the gradient and the y-intercept of the straight line with the following equation; $6y + 8x - 4 = 0$	REL 1·1a Gold Outcome 1
Question 5: Factorise the following expression; $7u^2 - 24u + 9$	E+F 1·2b Gold Outcome 3
My score:	

Exam Questions

Question 1:

REL 1·1e Silver Outcome 2

Change the subject of the formula

$$A = 4\pi r^2$$

to r. **2**

Question 2:

REL 1·4a Gold Outcome 1

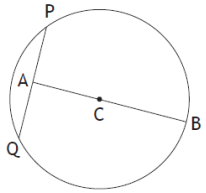
The diagram below shows a circle, centre C.

The radius of the circle is 15 centimetres.

A is the mid-point of chord PQ.

The length of AB is 27 centimetres.

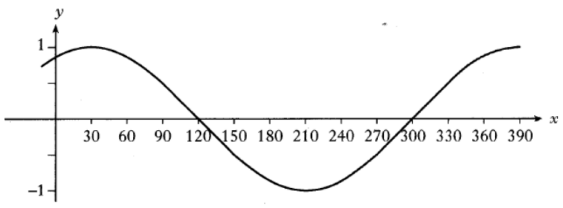
Calculate the length of PQ. **4**



Question 3:

REL 1·5a Gold Outcome 1

The graph shown below has an equation of the form $y = \cos(x - a)°$.



Write down the value of a. **1**

Question 4:

REL 1·5b Silver Outcome 1

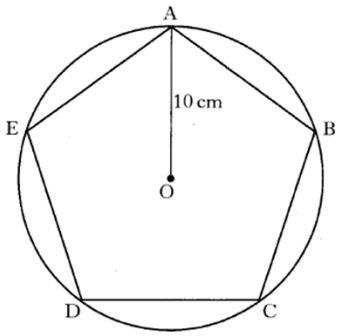
Solve the equation

$4\cos x° + 3 = 0, \quad 0 \leq x \leq 360.$ **3**

Question 5:

APP 1·1 Silver Outcome 1

A regular pentagon ABCDE is drawn in a circle, centre O, with radius 10 centimetres.



Calculate the area of the regular pentagon. **5**

My score: