| Name: | Date: |
|---|---|
| Question 1:<br>  <br>£800 is invested in a high interest savings account which will pay 7% interest p.a.<br>How much will be in the account after 2 years?<br>  | E+F 1·2a Bronze Outcome 1 |
| Question 2:<br>Express $x^2 + 10x + 27$ in the form $(x + a)^2 + b$. | E+F 1·2c Bronze Outcome 1 |
| Question 3:<br>Find the equation of the line joining the points (4, 2) and (6, 10).<br>Give the equation in it's simplest form. | REL 1·1a Silver Outcome 2 |
| Question 4:<br>A function is given as $h(a) = 5a - 4$.<br>Evaluate $h(-3)$. | REL 1·1b Silver Outcome 1 |
| Question 5:<br>Solve **algebraically** the system of equations;<br>$9x + 5y = 16$<br>$3x + 2y = 1$ | REL 1·1d Gold Outcome 1 |
| My score: | |

# Exam Questions

## Question 1:

E+F 1·2a Silver Outcome 2

Factorise

$x^2 - 5x - 24.$ 2

## Question 2:

APP 1·3b Gold Outcome 2

Evaluate $\frac{5}{12} \times 2\frac{2}{9}$.

Give the answer in simplest form. 2

## Question 3:

REL 1·1c Silver Outcome 2

Solve algebraically the inequality

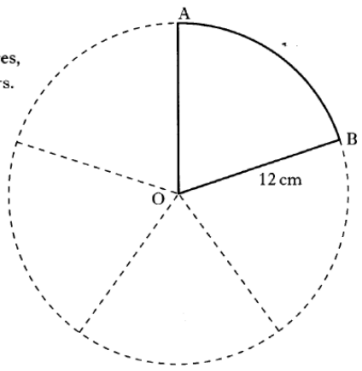
$11 - 2(1 + 3x) < 39$ 3

## Question 4:

E+F 1·4b Silver Outcome 1

A circle, with centre O and radius 12 centimetres, is cut into 5 equal sectors.

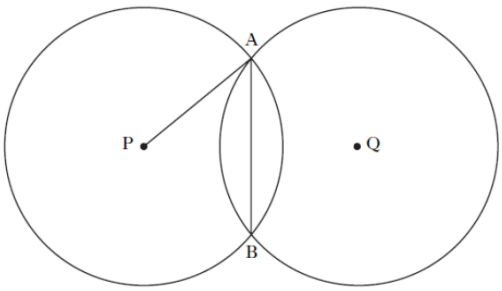
Calculate the perimeter of sector OAB. 3




## Question 5:

REL 1·4a Gold Outcome 1

Two identical circles, with centres P and Q, intersect at A and B as shown in the diagram.




The radius of each circle is 10 centimetres.
The length of the common chord, AB, is 12 centimetres.
Calculate PQ, the distance between the centres of the two circles. 5

## My score: