Name:	Date:
Question 1:  A box of tea bags is on special offer and contains 275 tea bags. This is 10% more tea bags than in a standard box.  How many tea bags are in a standard box?	APP 1·3a Bronze Outcome 1
Question 2: Write the following in it's simplest index form. $\frac{2r^2 \times 5r^4}{10r^6}$	E+F 1·1b Silver Outcome 1
Question 3: Multiply out the following brackets and collect like terms; $(6x-5)(x^2-2x+4)$	E+F 1·2a Gold Outcome 3
Question 4: Solve **algebraically** the system of equations; $3x+2y=1$ $5x-3y=84$	REL 1·1d Gold Outcome 1
Question 5: Find the equation of the line joining the points (2, 3) and (5, -9). Give the equation in it's simplest form.	REL 1·1a Silver Outcome 2
My score:	

Exam Questions

Question 1:

APP 1·3b Gold Outcome 2

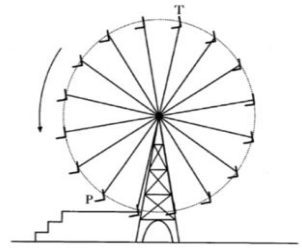
Evaluate $\frac{3}{8} \times 1\frac{5}{7}$.

Give your answer in its simplest form. 2

Question 2:

E+F 1·4b Silver Outcome 1

The diagram below shows a big wheel at a fairground.



The wheel has sixteen chairs equally spaced on its circumference.
The radius of the wheel is 9 metres.
As the wheel rotates in an anticlockwise direction, find the distance a chair travels in moving from position T to position P in the diagram. 4

Question 3:

REL 1·4a Bronze Outcome 1

The diagram below shows the position of three towns.
Lowtown is due west of Midtown.
The distance from

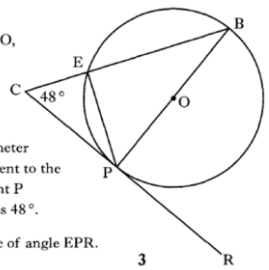
- Lowtown to Midtown is 75 kilometres.
- Midtown to Hightown is 110 kilometres.
- Hightown to Lowtown is 85 kilometres.

Is Hightown directly north of Lowtown? Justify your answer. 4

Question 4:

REL 1·4b Gold Outcome 1

A circle, centre O, is shown below.



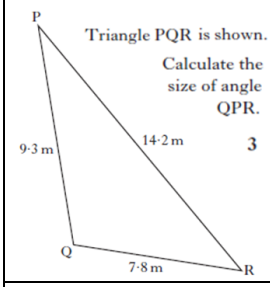
In the circle

- PB is a diameter
- CR is a tangent to the circle at point P
- Angle BCP is 48°.

Calculate the size of angle EPR. 3

Question 5:

APP 1·1 Gold Outcome 3



Triangle PQR is shown.
Calculate the size of angle QPR. 3

My score: