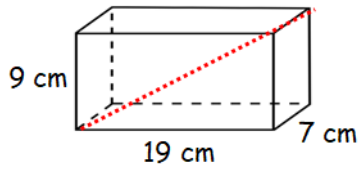
Name:	Date:
Question 1: Write the following in it's simplest index form. $\frac{9y^3 \times 2y^4}{6y^5}$	E+F 1·1b Silver Outcome 1
Question 2: A car is bought for £8000 and is expected to decrease by 6·78% p.a. How much is the car expected to be worth after 4 years?	APP 1·3a Silver Outcome 3
Question 3: Find the equation of the line joining the points (1, -3) and (3, 9). Give the equation in it's simplest form.	REL 1·1a Silver Outcome 2
Question 4: Multiply out the following brackets and collect like terms; $(2x-7)(x^2+2x+5)$	E+F 1·2a Gold Outcome 3
Question 5: For this cuboid, calculate the length of the space diagonal.  	REL 1·4a Silver Outcome 1
My score:	

Exam Questions

Question 1:

Evaluate $2\frac{1}{3}+\frac{5}{6}\ of\ 1\frac{2}{5}$ 2

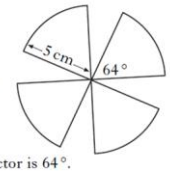
You're on your own!

Question 2:

A fan has four identical plastic blades.

Each blade is a sector of a circle of radius 5 centimetres.

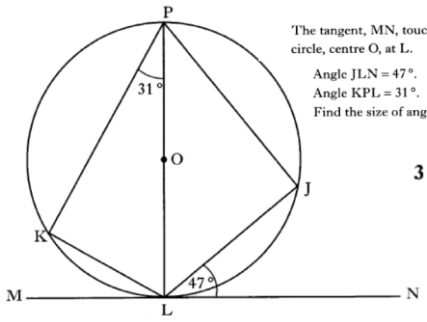
The angle at the centre of each sector is 64°.



Calculate the **total** area of plastic required to make the blades. 3

E+F 1·4b Bronze Outcome 2

Question 3:



The tangent, MN, touches the circle, centre O, at L.

Angle JLN = 47°.
Angle KPL = 31°.
Find the size of angle KLJ. 3

REL 1·4a Silver Outcome 1

Question 4:

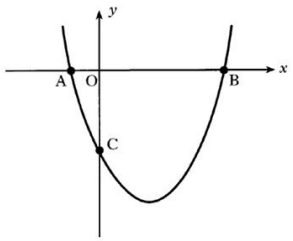
Solve the quadratic equation

$3x^2 + 3x - 7 = 0$

using an appropriate formula.
Give your answers correct to 1 decimal place. 4

REL 1·3a Gold Outcome 3

Question 5:



The equation of the parabola in the above diagram is

$y = (x-2)^2 - 9$.

(a) State the coordinates of the minimum turning point of the parabola. 2

(b) Find the coordinates of C. 2

(c) A is the point (–1, 0). State the coordinates of B. 1

REL 1·2 Bronze Outcome 3

My score: