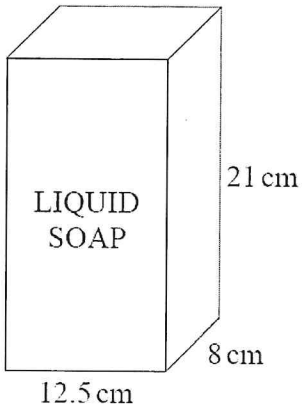
M2 = 38 days to go!

Each soap dispenser in a restaurant is in the shape of a cuboid.

The measurements are shown in the diagram below.



(a) Work out the volume of the soap dispenser.

State the units of your answer.

Vol = length × width × height

Vol = 12.5 × 8 × 21

Vol = 2100 cm^3 or 2100 ml

Answer 2100 cm^3 [3]

Remember Units

(b) The manager of the restaurant buys 15 litres of liquid soap.

How many soap dispensers will he be able to fill?

15 litres = 15000 ml

$\frac{15000}{2100} = 7.14$

Answer 7 able to fill [2]

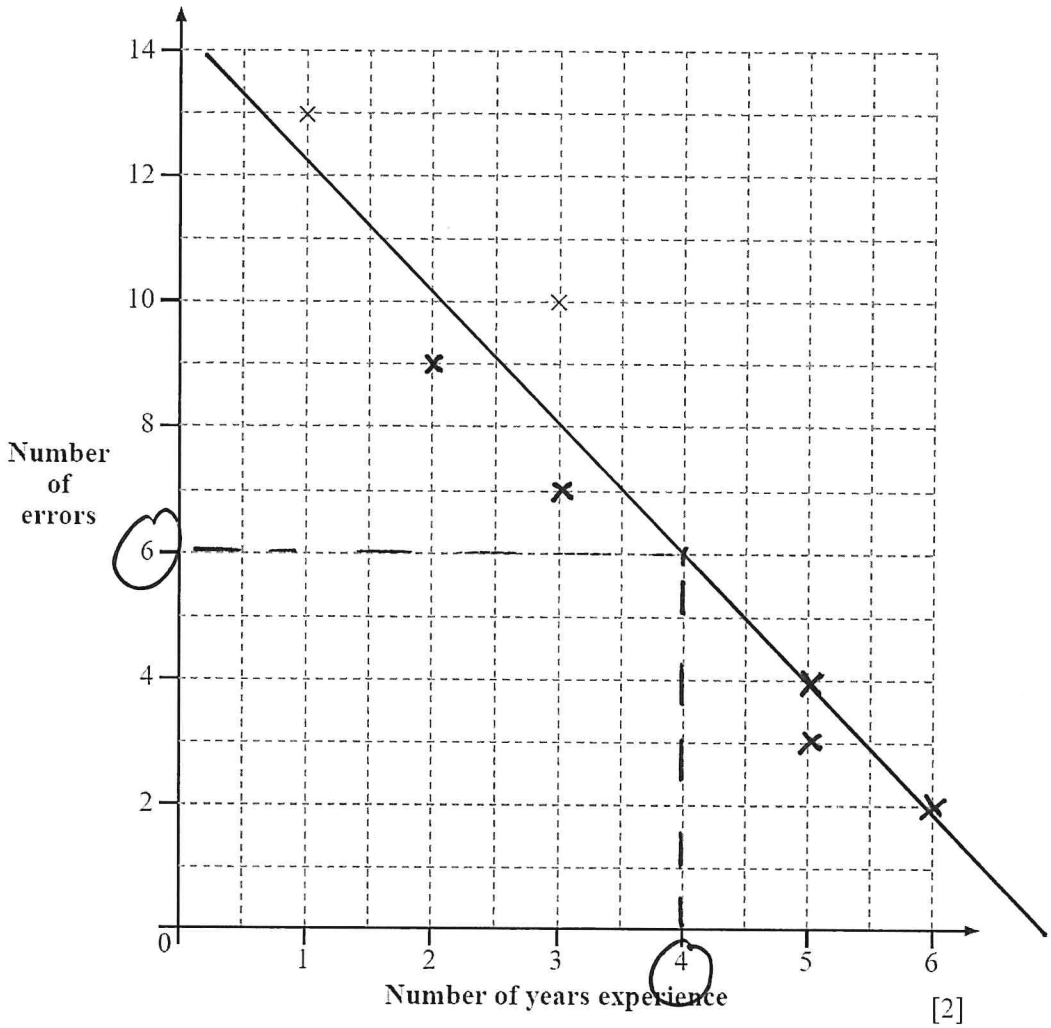
16 Seven rugby matches were watched to see how many errors the referee made.

The number of years experience for each referee is also shown.

Referee	**A**	**B**	**C**	**D**	**E**	**F**	**G**
Number of years experience	**3**	**1**	5	2	6	5	3
Number of errors made	**10**	**13**	4	9	2	3	7

(a) Plot this information on the scatter graph below.

The first two points have been done for you.



[2]

(b) Draw a line of best fit. ½ points each side [1]

(c) Use your line of best fit to estimate the number of errors made by a referee with four years experience.

Answer 6 errors [1]