

m7 = 9 days to go!

8 A book costs £3 and a pen costs £2

Write a formula for the total cost, C , in £, for x books and y pens.

$3x$ $2y$
 $x+x+x$ $2+2+2+\dots$
 or
 $3+3+3+3$ y of these
 x of these

Answer $C = \underline{2x + 3y}$ [3]

6. The equation



$$(x + 1)(x + 3) = 84$$

has a solution between 7 and 8.

Use trial and improvement to find this solution.

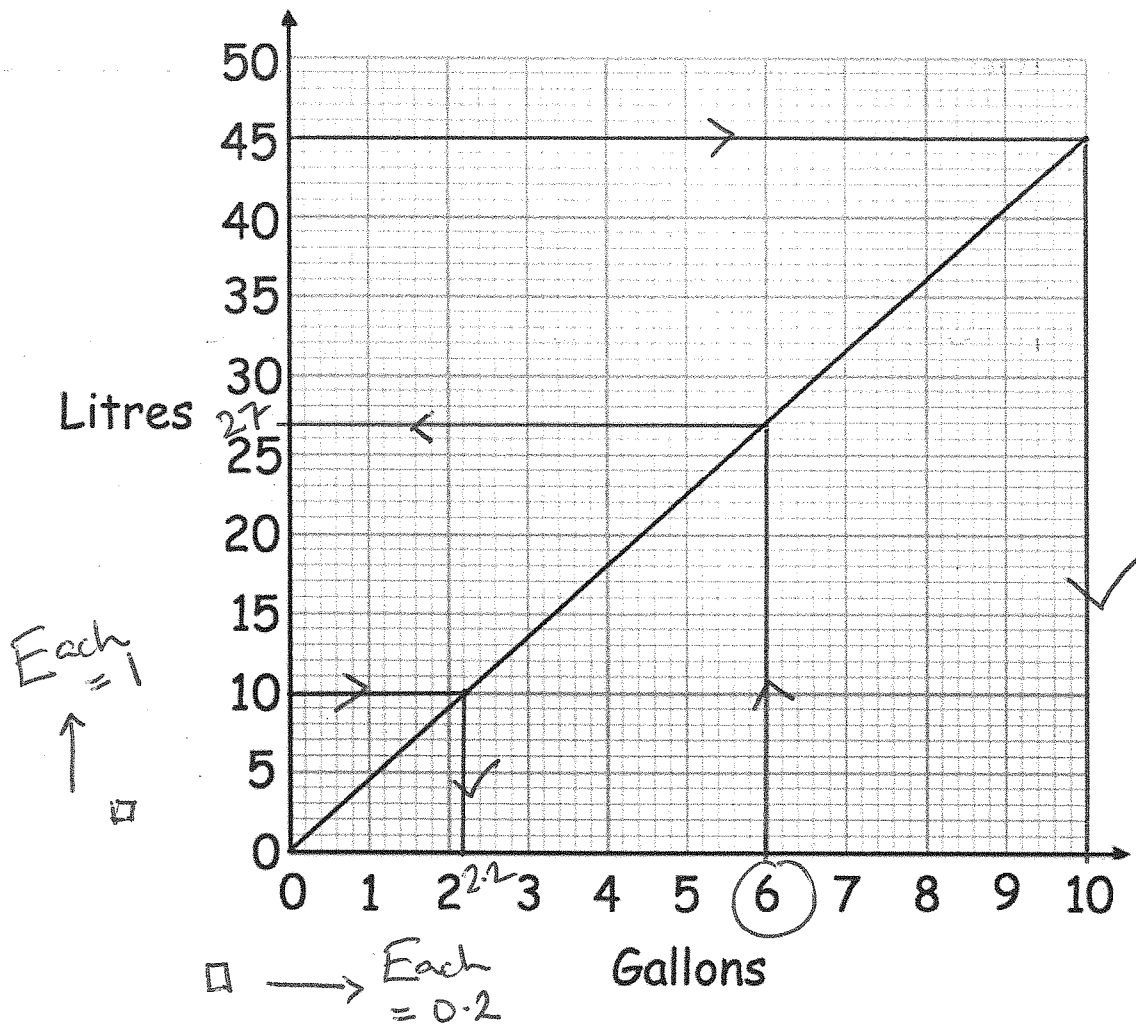
Give your answer correct to 1 decimal place.

You must show all your working.

x	$(x+1)(x+3)$	Too Big or Too Small
7	$8 \times 10 = 80$	Too Small
7.2	$8.2 \times 10.2 = 83.64$	Too Small
7.3	$8.3 \times 10.3 = 85.49$	Too Big
7.25	$8.25 \times 10.25 = 84.5625$	Too Big

Too Small Too Big Too Big
 7.2 7.25 7.3
 Answer 7.2

5.



(a) Use the graph to convert 6 gallons to litres.

27
..... litres
(1)

(b) Use the graph to convert 10 litres to gallons.

2.2
..... gallons
(1)

Alan's car drives 52 miles per gallon.

(c) Work out how far he can drive with 45 litres of fuel.

52 miles per gallon
..... 520 miles
(1)

45 litres = 10 gallons

52 miles with 1 gallon
52 x 10 with 10 gallons
520