

ME = 10 days to go!

18 Over a period of 8 hours, the temperature of a room follows the relationship

$$T = h^2 - 6h + 15$$

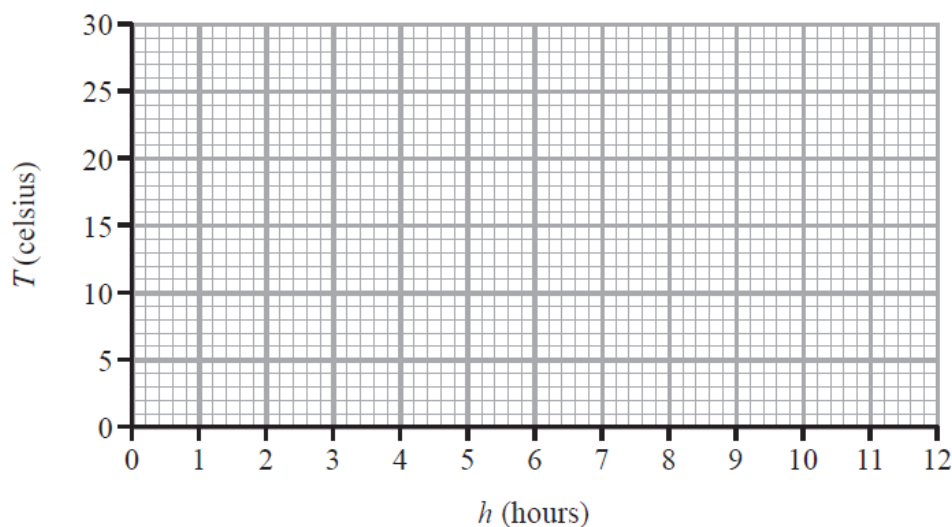
T is the temperature in degrees Celsius, h hours after the experiment started.

(a) Complete the table below:

h	0	1	2	3	4	5	6	7
T	15	10		6	7		15	22

[1]

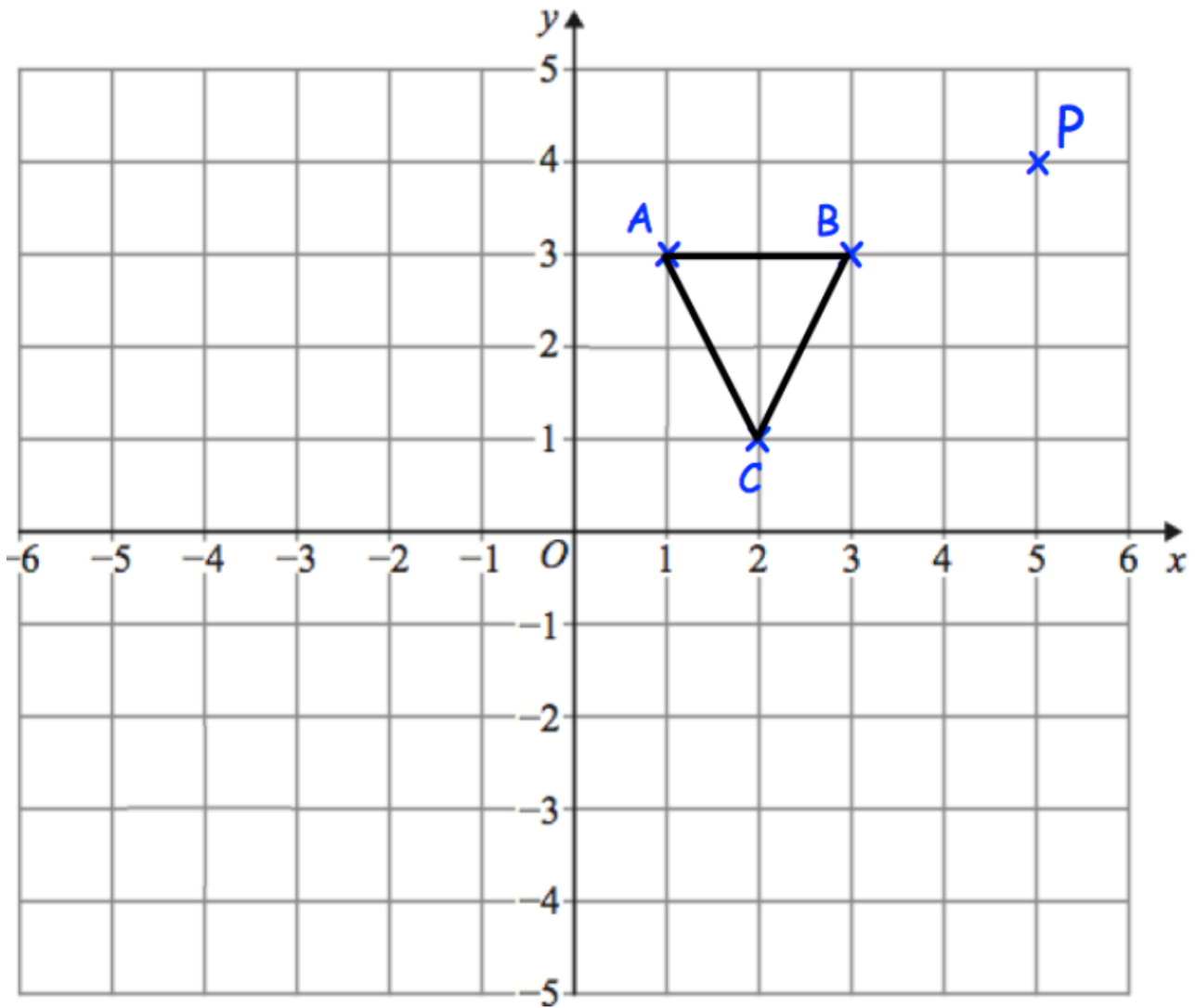
(b) Plot the points and draw the graph on the grid below:



[2]

(c) Use your graph to find the times when the temperature in the room was 12 degrees Celsius.

Answer _____, _____ [1]



Enlarge triangle ABC by scale factor 2, using the point P as the centre of enlargement.

(3)

: Harry is trying to write the number 24 as a binary number.

16	8	4	2	1
1	0	1	1	2

His answer is 10112

- What mistake has Harry made?
- What is the correct answer?