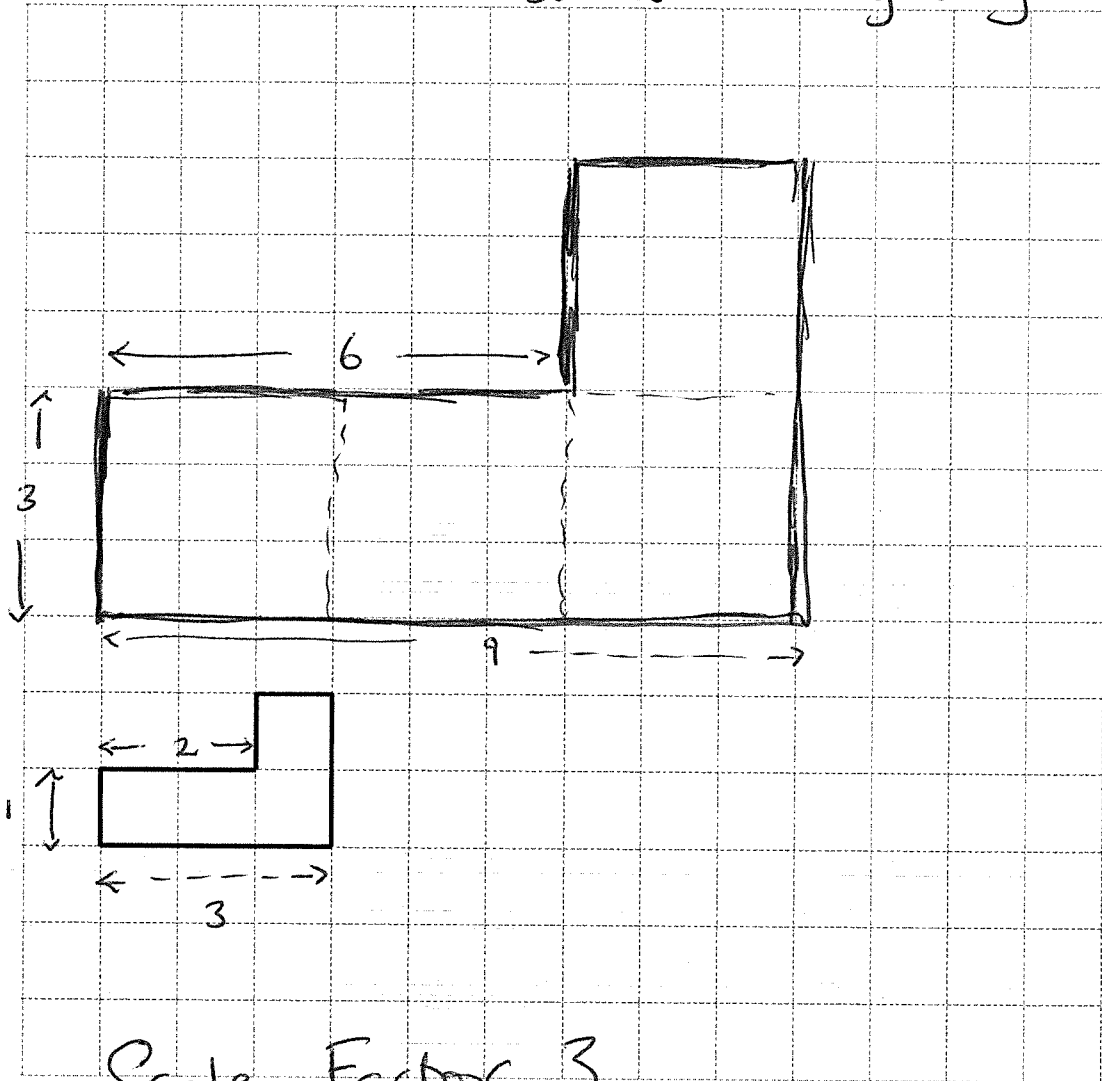


# M7 = 28 days to go!

2 Enlarge the shape by scale factor 3

No centre given  
so it is really easy to do



Scale Factor 3

[2]

means all the LINES are  
3 times longer

10 Work out the  $n^{\text{th}}$  term of the sequence 6, 3, 0, -3, ...

$\begin{matrix} \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} \\ -3 & -3 & -3 \end{matrix}$

Tricky because it is going down

Answer  $9-3n$  [2]

$$n^{\text{th}} \text{ term} = ? - 3n$$

But it starts with 6

so

$$n^{\text{th}} \text{ term} = 9 - 3n$$

you should check it!

$$4^{\text{th}} \text{ term} = 9 - 3 \times 4 = 9 - 12 \checkmark$$

16 Make T the subject of  $J = \sqrt{TR}$

$$J = \sqrt{TR}$$

square  
both sides

square  
both sides

$$J^2 = TR$$

Answer

$$T = \frac{J^2}{R}$$

[2]

$$\frac{J^2}{R} = T$$