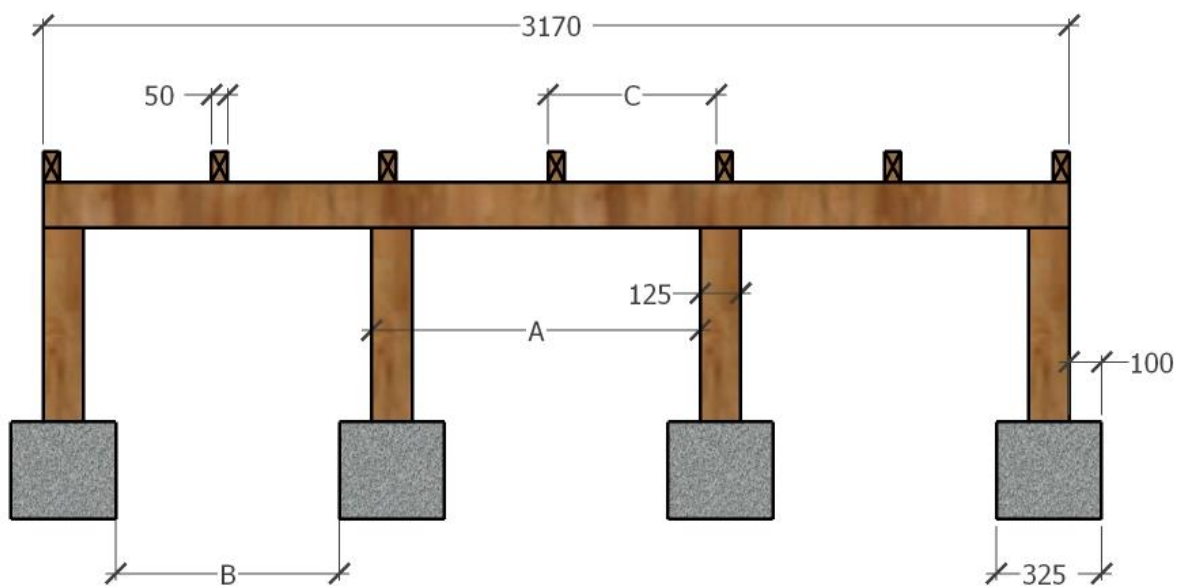


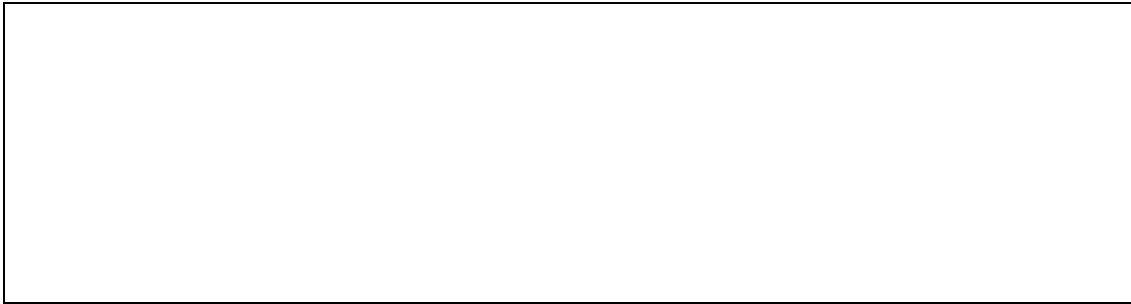
Learner Self-reflection 2 – 24361 (v3) Apply mathematical processes to BCATS projects

Student name:

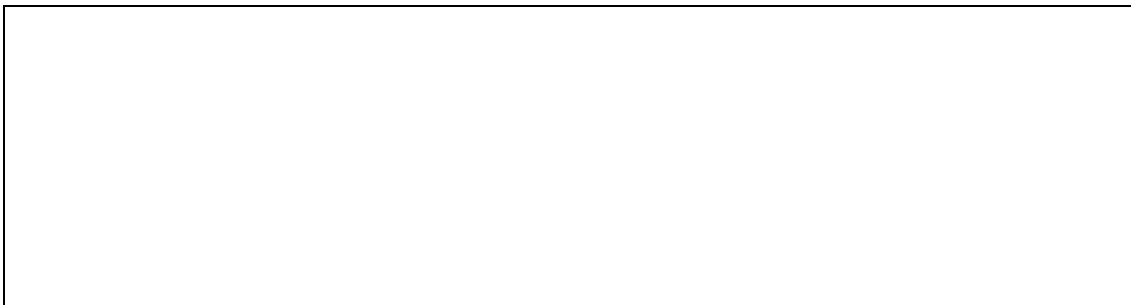


- a)** A deck needs to be constructed. (See sketch above.) The length of the deck is 3.170m. The foundation piles are 125 x 125 H4 radiata pine mounted in 325 x 325 concrete footings. Four are to be evenly spaced along its length. Calculate the spacings using the in and over method. (Distance A on the sketch).

b) You are preparing to dig out the footings. They are 325 x 325mm. Calculate the distance between the holes (Distance B on the sketch).



c) Seven joists need to be equally spaced along the bearer. Calculate the distance between centres for the joists to be positioned (Distance C on the sketch).



2. Complete the table below by converting the dimensions in the left column into millimetres and metres, millimetres and centimetres, or centimetres and metres.

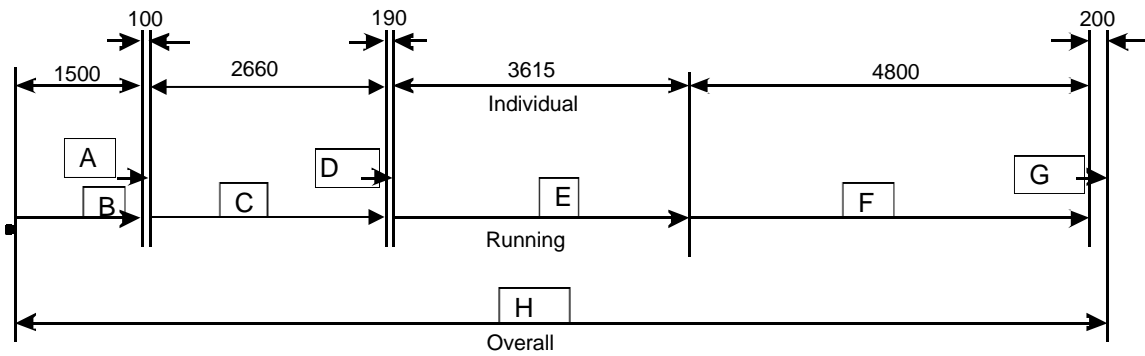
	Number	millimetres	centimetres	metres
	<i>Example 5cm</i>	50	-	0.05
a.	75 mm			
b.	25 cm			
c.	1.3 m			
d.	126 cm			
e.	5 mm			
f.	3800 mm			
g.	1390mm			
h.	.05 m			
i.	.8 m			
j.	.001 m			
k.	109500 mm			
l.	324 cm			
m.	.4 cm			
n.	5.600m			

3. Select the most suitable measuring tool, measure it, and record the following dimensions in both millimetres and metres.

	Millimetres	Metres
Height of a door		
Thickness of a door		
Length of a wall		
Height of a desk		

4. The length of a fence is 24 metres. The posts are to be spaced 2 metres apart. How many posts do you need to order?

5. Using the series of individual measurements from a building plan detailed below, calculate the dimension of the running and the overall measurements.



A	
B	
C	
D	
E	
F	
G	
H	

