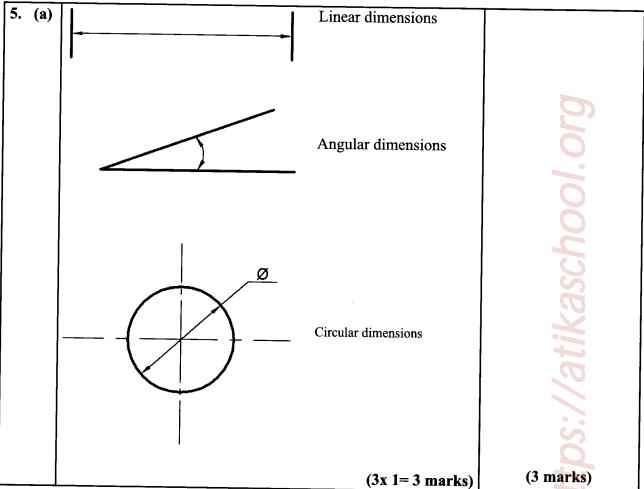
## 5.7 DRAWING AND DESIGN (449)

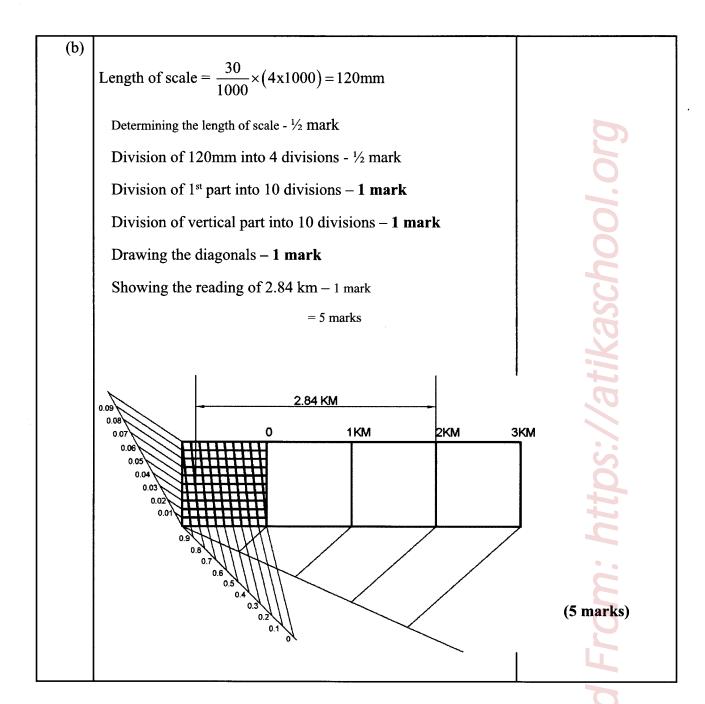
## 5.7.1 Drawing and Design Paper 1 (449/1)

1.	. (a)	Qualities of an entrepreneur	
1	· (u)	- Ability to pursue self-employment	
1		- Ability to identify bysiness and at	
1		- Ability to identify business opportunities	9
1		- Ability to mobilize or solicit for funds or resources	
ł		- Ability to solve problems	
		- Is a risk taker.	
1		- Is creative	
1		- Is an innovator	
		Is a good manager of time	6
ŀ		(Any 3 x 1= 3 marks)	(3 marks)
	(b)	Characteristics of a good technical drawing paper	
1	(0)	- The texture should be smooth	
1			1
		The colour should be white for contrast	TO.
		The thickness should be adequate so that the pencil does not	
		penetrate through (should not tear easily)	
		The surface finish should not be glossy to cause reflection.	(6)
		- Should be standard sizes	
		(Any 4 x $\frac{1}{2}$ = 2 marks)	(2
2.	(a)	Two instruments for drawing vertical lines	(2 marks)
		The state of the s	2
ſ		T – square	
ĺ		Set - square	
<u> </u>	<i>(</i> 1)	(Any 2 x $\frac{1}{2}$ = 1 mark)	(1 mark)
	(b)	Use of dividers	
		Transferring measurements from the ruler to the drawing or	
		from one drawing to another	
		<ul> <li>Stepping off a series of equal distances.</li> </ul>	
<u> </u>		(Any 2 x1= 2 marks)	(2 marks)
3.		Types of lines	
		A - Outline – used to show visible outline and edges	2
		B – Centre line – used to show centre lines for circles or lines of	O
		symmetry	
		C – Hidden detail lines – used to show features which are	
	l	hidden from viewer.	
		D – Cutting plane line – indicates where the cutting plane is	
		E – Break line – indicates the limit of partial views as sections	
	ł	F – Hatching lines – it is used to show the part which has been	2
	ł	cut	
	ł	6 x ½= 3 marks)	(3 marks)

4. (a)	Classifications of metals Ferrous metals e.g. steel, iron Non-ferrous metals e.g. copper, aluminium, silver, gold Alloys e.g. brass, bronze  Naming 3 x½= 1½marks Examples3 x½= 1½marks	(3 marks)
(b)	Drawing the circles 80mm apart - ½ mark  Bisecting 80mm distance - ½ mark  Drawing semi-circle - ½mark  Drawing arc radius R <sub>1</sub> +R <sub>2</sub> = ½ mark  Drawing // lines - ½ mark  Drawing the tangent - ½ mark  = 3 marks	ded From: https://atikascho



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7. (a)	Woodruff key  Feather key	atikaschool.org
	Gib head key	: https://a
	(2x3= 6 marks)	(6 marks)
8.	Diagrams for drawing  - Archi – cad - Auto – cad - Paint - Corel draw - Sketch up - Real draw	aded Fro
	(Any 6x ½ mark= 3 marks)	(3 marks)

