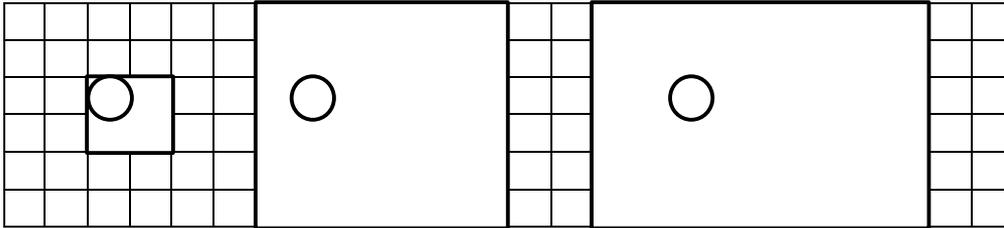


ACTIVITE : AGRANDISSEMENT. REDUCTION

I. Introduction



Arrois r iur cid u r on d u u tion ui nt :
 r u no r uti uti i r d i n ion d i ur 1 ouo t n i r i ur 2

 r u no r uti uti i r d i n ion d i ur 2 ouo t n i r i ur 1
 c ut on o t n i r i ur 3 r t i r d i ur 1 r u n r n d i n t ou un r d u c t i o n

Co t r u i n t :
 i r un r n d i n t d un i ur ou un r d u c t i o n d un i ur c t : ...

II. E t u r i r

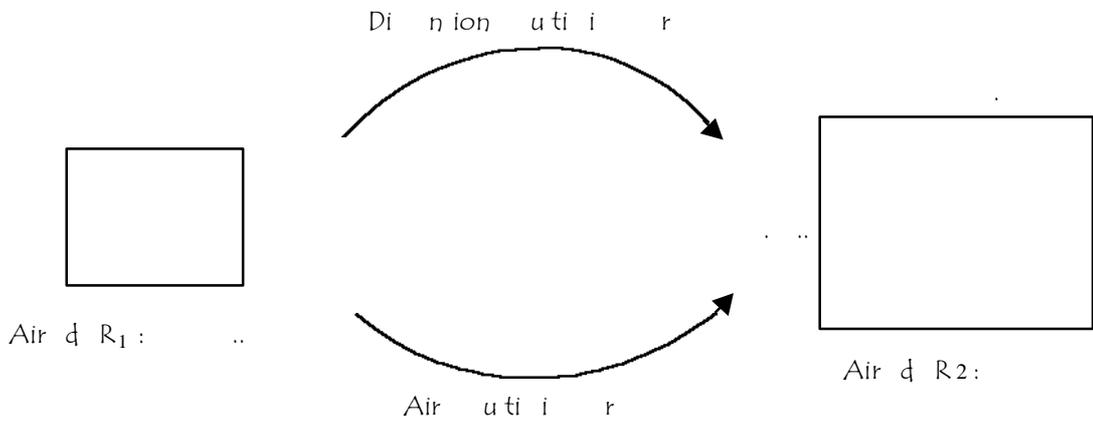
1 Surtonc i r tu u t i d r d u u d r i :
 Con trui un r c t n A C D d on u ur A 3 c t d r ur C 2 c .
 Con trui un r c t n E G o t n u r t i r d A C D r u n r n d i n t c 3 .
 c C cu i r r c t i d r c t n A C D t E G :
 A i r d A C D :
 A i r d E G :

2 Con trui un r c t n I d on u ur l c t d r ur c .
 Con trui un r c t n M N O o t n u r t i r d I r u n r d u c t i o n c $\frac{1}{2}$.
 c C cu i r d r c t n I t M N O :

3 Co t t u u i n t :

	d i n ion o n t u t i i r :	i r t u t i i r :
D A C D E G		
D I M N O		

4° r u t t o r u r c d u c r t i c u i r t i r i u u o i t c
 ou r r o n d r c t t u t i o n c o n d i r o n i n t n n t u n r c t n R₁ d on u ur t d
 r u r . O n u t i i d i n ion r u n n o r t r i c t n t o i t i t o n o t i n t
 r c t n R₂.

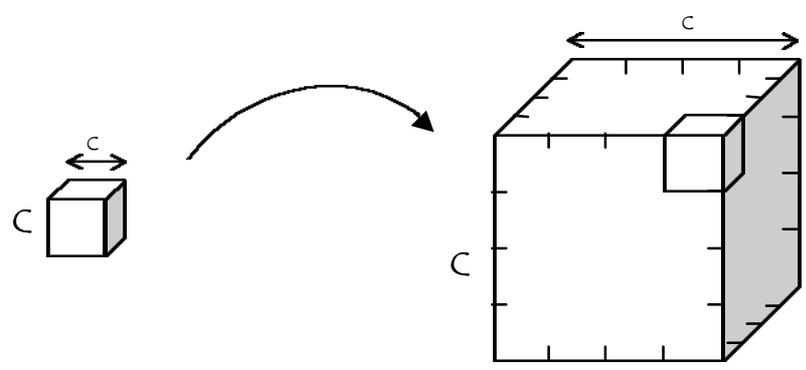


Concu ion: or u on uti i di n ion d un r ct n r on ir t uti i r ..

On d t u our tout i ur or u on uti i di n ion d i ur run no r trict nt o iti on ir t uti i r .

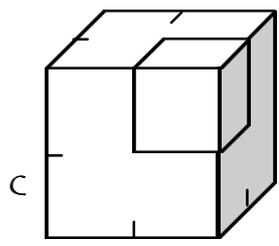
III. E t ur ou

- Voici d u cu C d r t 1 c t C d r t c .
 cu C tun r ndi nt d u cu C c ..
 ou d C ut: c uid C ut: ..
 ou d C t oi ou d C .



G n r i tion :

- On con id r int n nt un cu C d r t c t un cu C d r t c o t n u r r d u ct ion d
 $C = c + \frac{1}{2}c$. c c .
 ou d C ut: ..
 c uid C ut: ..
 ou d C t . oi ou d C .



- uo ti nt on u tion 2 n r n nt our c
 trict nt o iti c d $\frac{1}{2}$

Concu ion: