

# ETHIOPIA INSTITUTE OF TECHNOLOGY-MEKELLE (EIT-M)

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ARCHITECTURE AND URBAN PLANNING  
ENTRANCE EXAM  
PROPOSAL

# Contents included in exam

## 1. Architectural IQ Question

- 1.1 Observation

- 1.2 Understanding

- 1.3 Contextual meaning

- 1.4 Relationship

## 2. Sketch

- 2.1 Fill omitted picture

- 2.2 Draw observed object

- 2.3 Draw memorized picture

- Discuss in brief this main topic

Q. What are the three primary colors

BLUE

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RED

YELLOW

A. RED +  
YELLOW

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B. BLUE +  
YELLOW

C. BLUE + RED

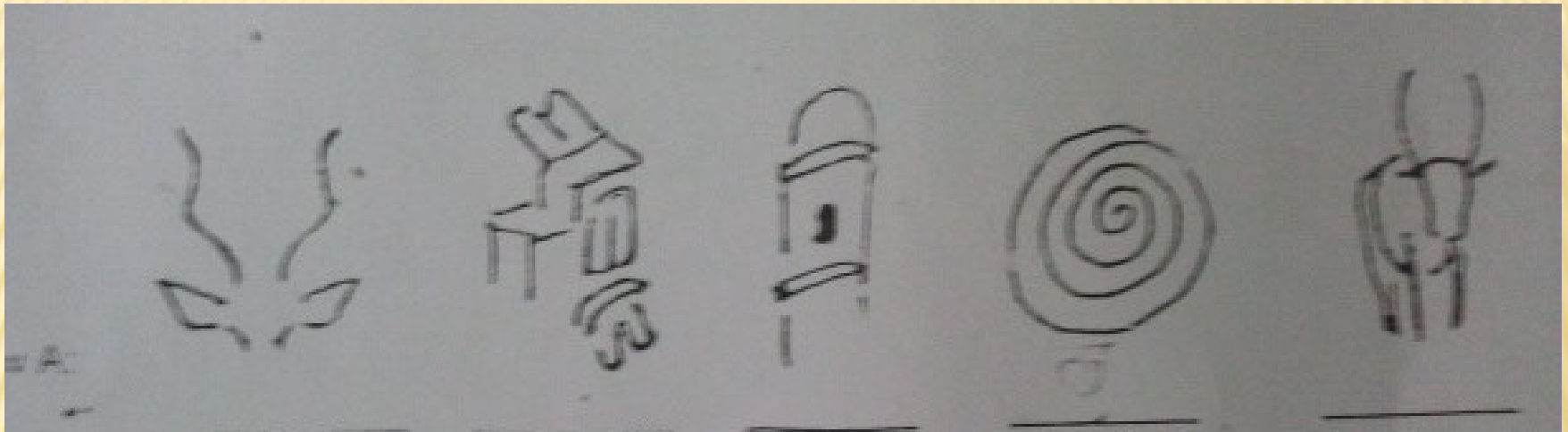
A. ORANGE

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B. GREEN

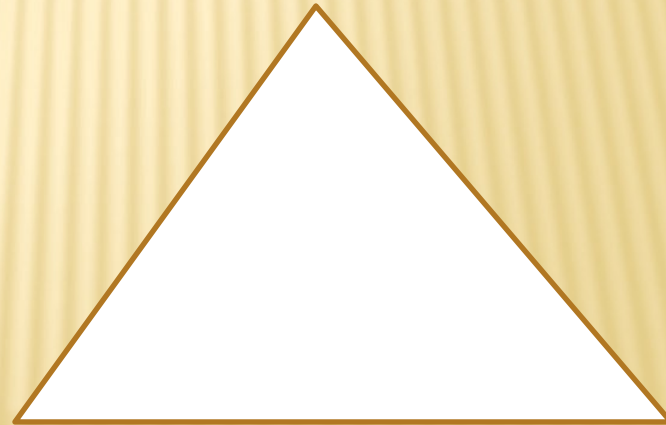
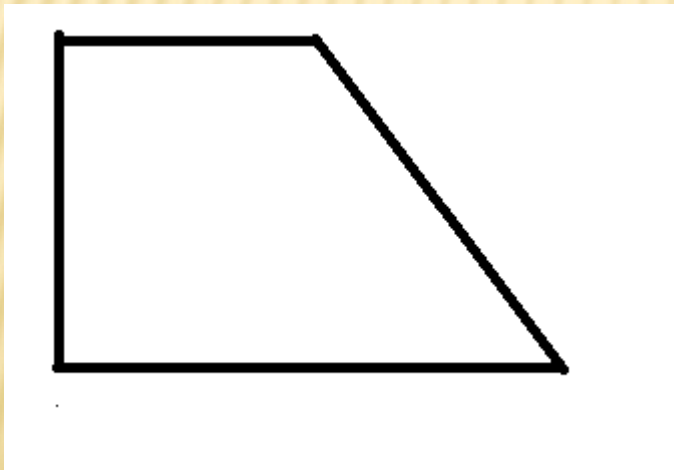
C. PURPLE

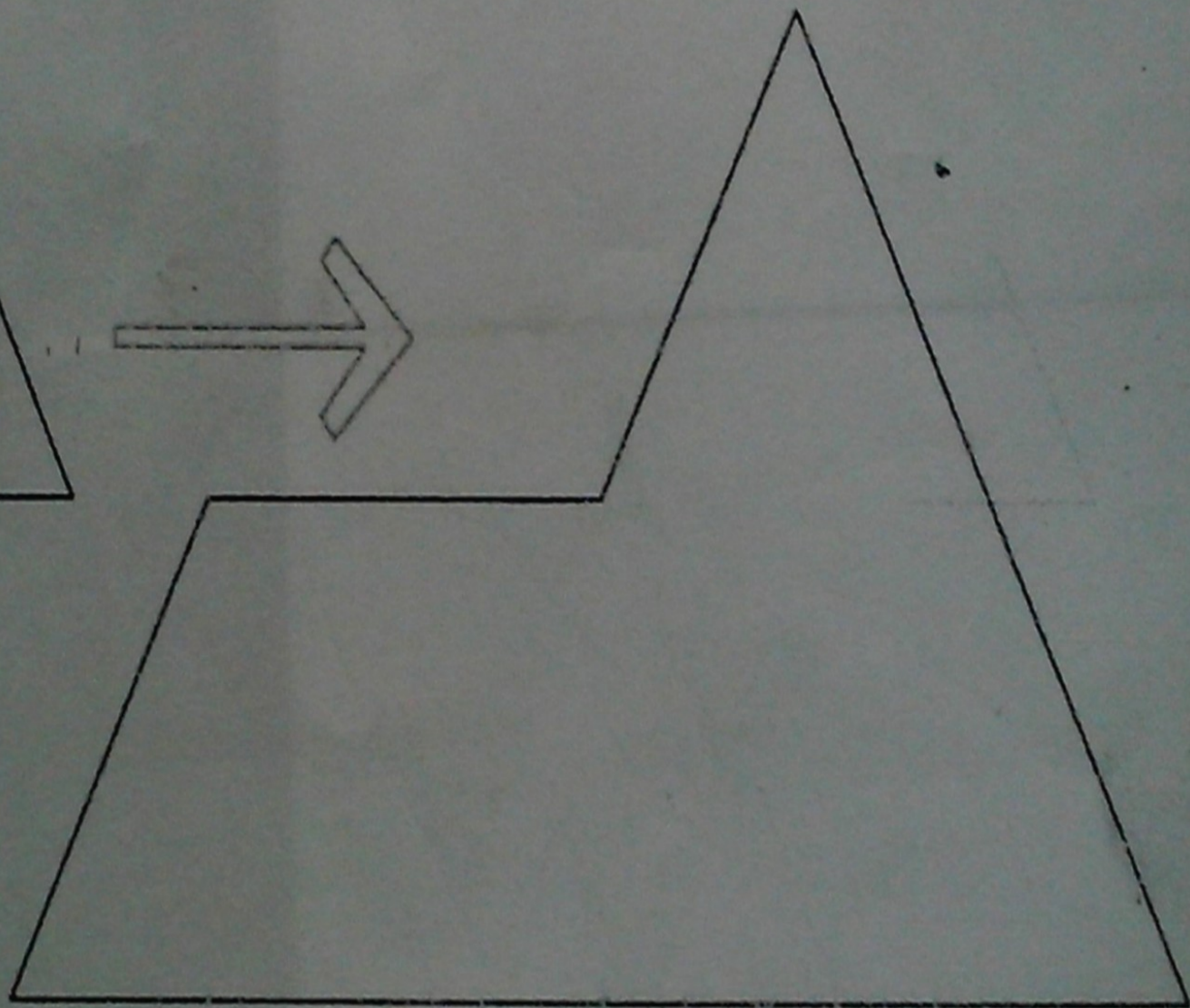
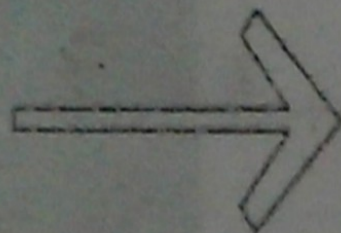
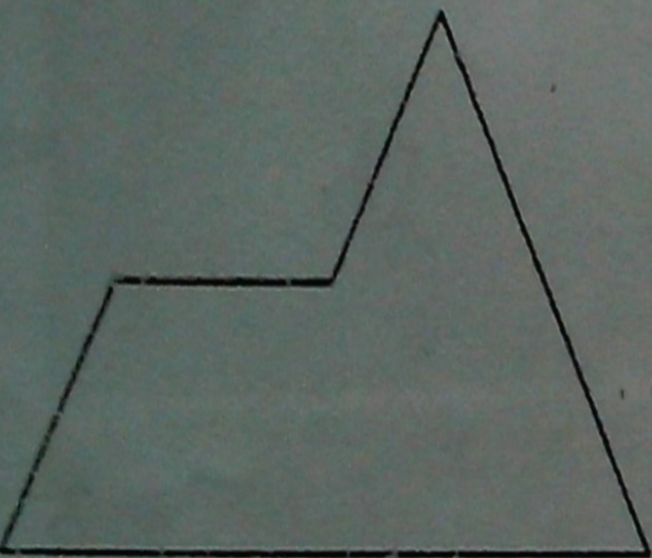
Match one item on row A with a related item on row B.



ᐃ ᐅ ᐆ ᐇ ᐈ ᐉ ᐊ ᐋ ᐌ ᐍ ᐎ ᐏ ᐐ ᐑ ᐒ ᐓ ᐔ  
 ᐕ ᐖ

.Create four identical element in the figure below with the same shape of the master figure.





.Assume you are standing inside a bottle of coca-cola and you eye level is at the English logo on the bottle. Sketch your view of the English logo?

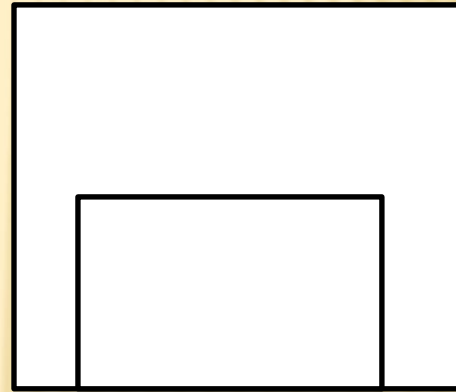
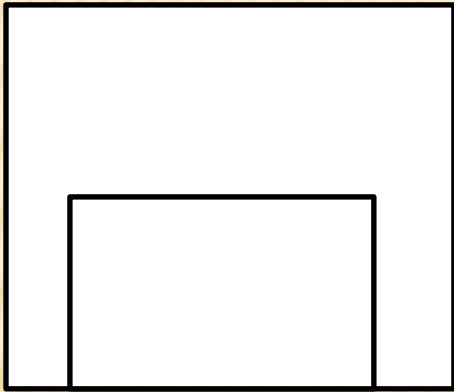
Coca-  
cola

Coca-cola

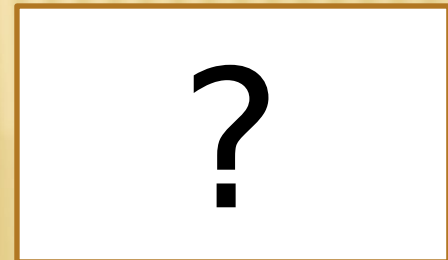
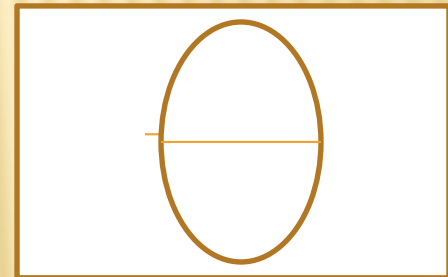
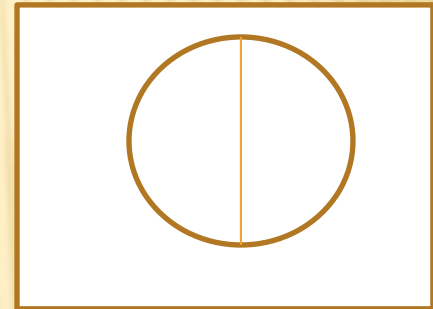
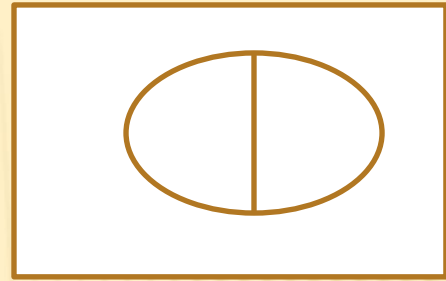
❑ HOW MANY RECTANGLES ARE THERE ?

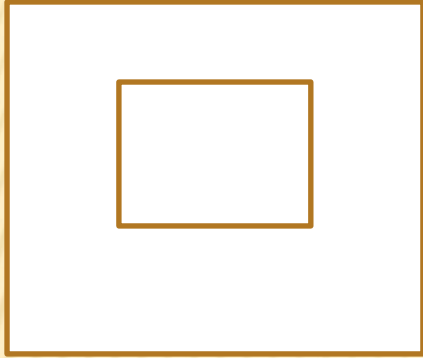


The two drawing below are two orthographic views of the three dimensional object with out any curved surface. The drawing at left is the front view and the drawing at the right is the top view. Work out shape of object.

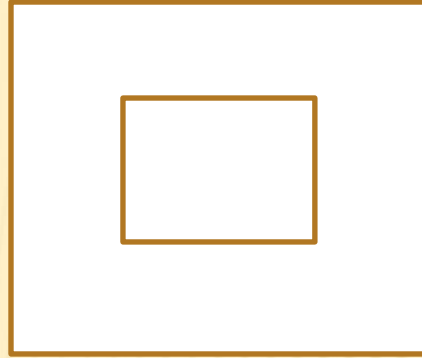


Continue  
the figure





TOP



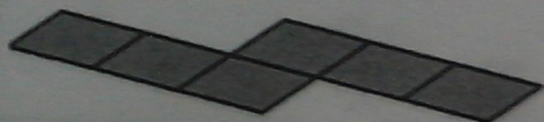
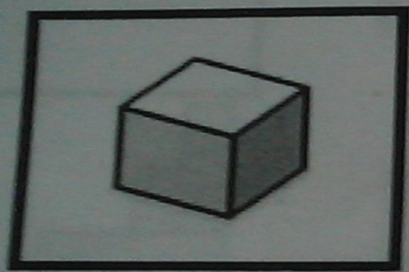
FRONT

?

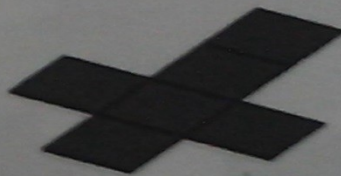
SIDE

Sketch the development

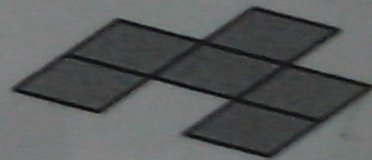




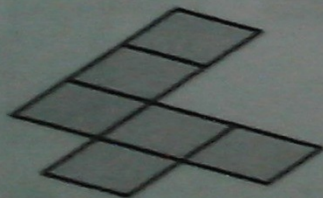
A



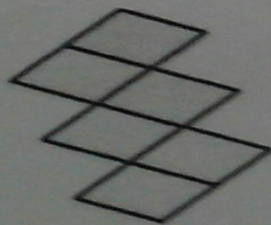
B



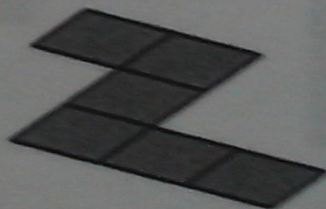
C



D



E



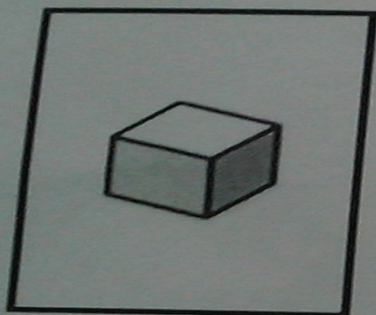
F



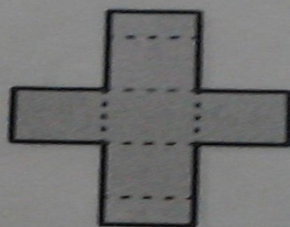
G

Architecture Entrance Exam

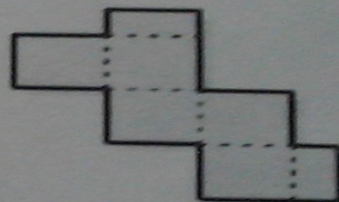
Wednesday 31<sup>st</sup> of October 2012



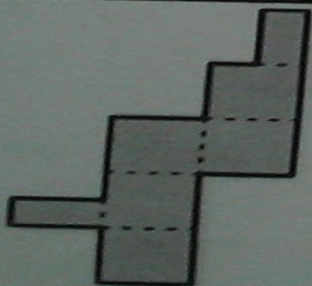
A



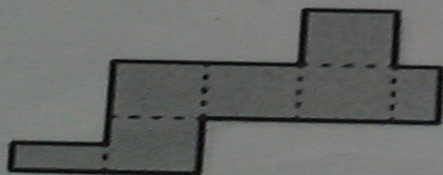
B



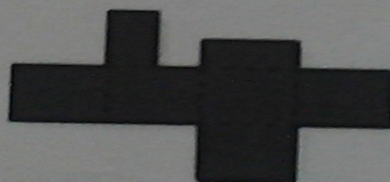
C



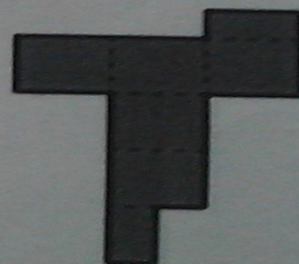
D

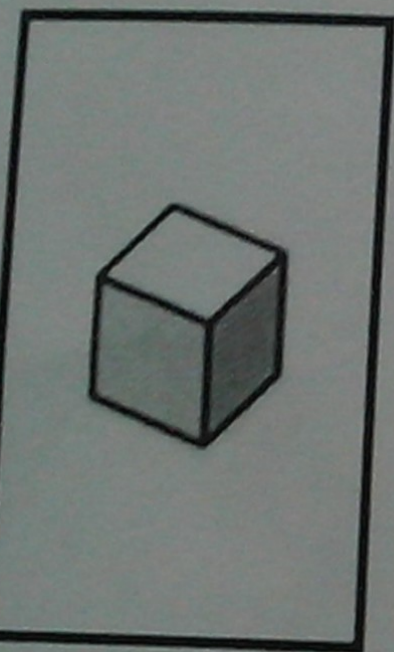


E

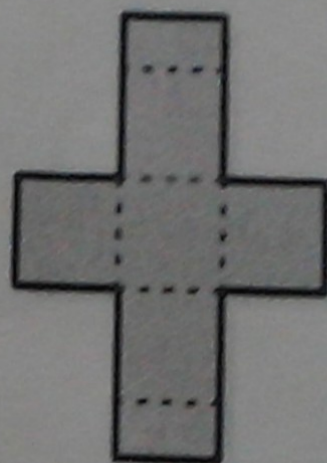


F

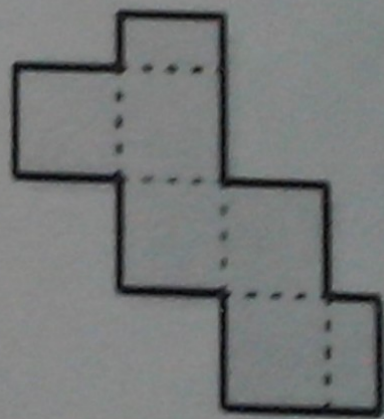




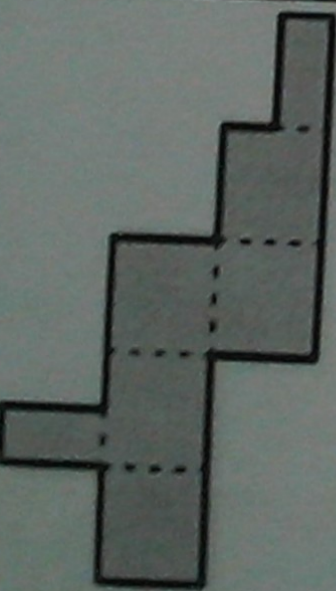
A



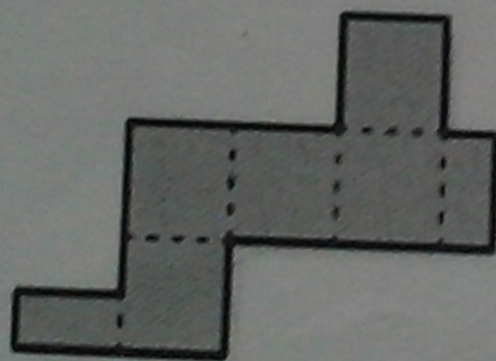
B



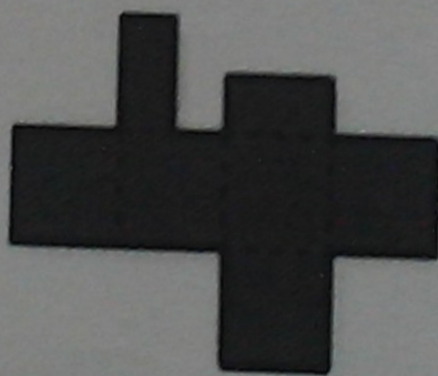
C



D



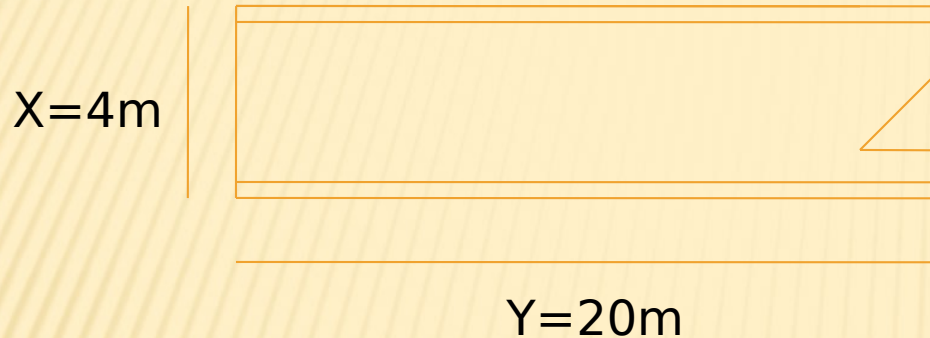
E



F



Consider a room of the proportion given below.



The oblong nature of the room could be psychologically improved without altering the dimensions of the room by using appropriate colors which would have the effect of visually pulling forwards walls X and pushing apart walls Y.

From the colors given below choose and indicate on the drawing the appropriate color for each wall to be used as a paint in order to produce the above effect.

A. Light yellow

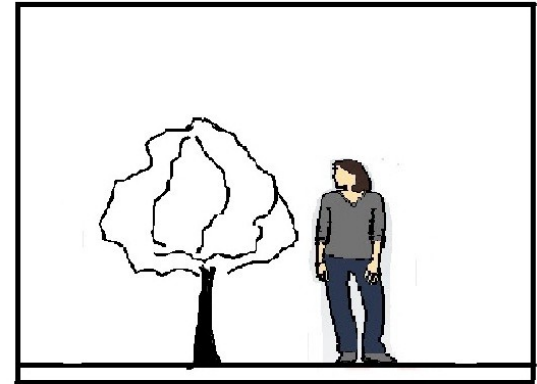
B. Deep red

C. Deep orange



Arrange the tree from the smallest to the biggest?

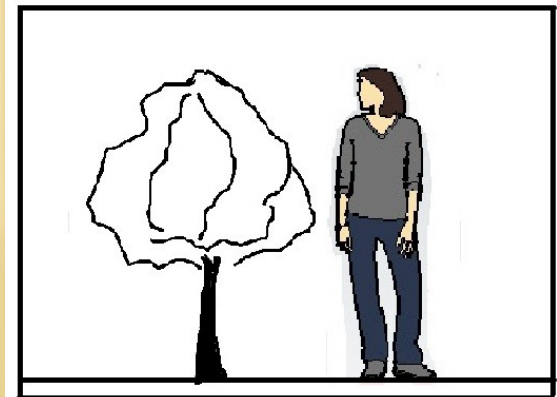
A.



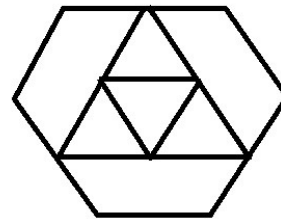
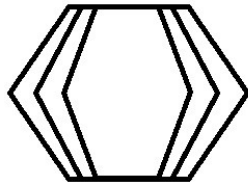
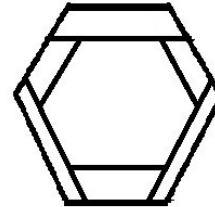
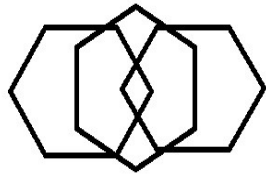
B.



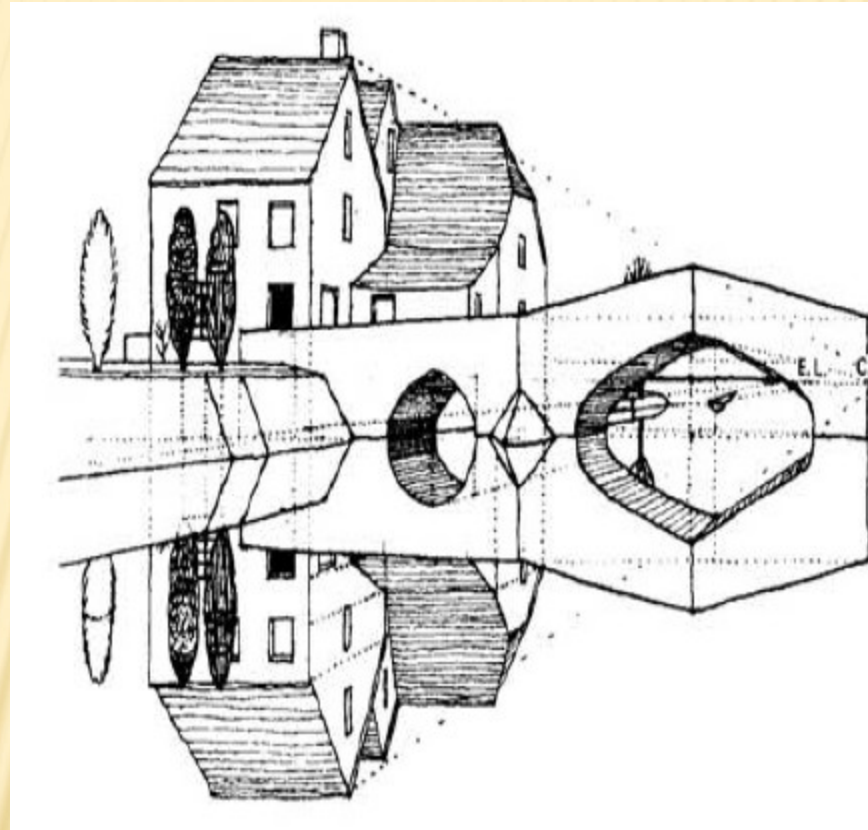
C.



Which one of the ff shapes cannot be formed by combining 3 equal sized hexagons?



# Draw mirror image in water reflection?



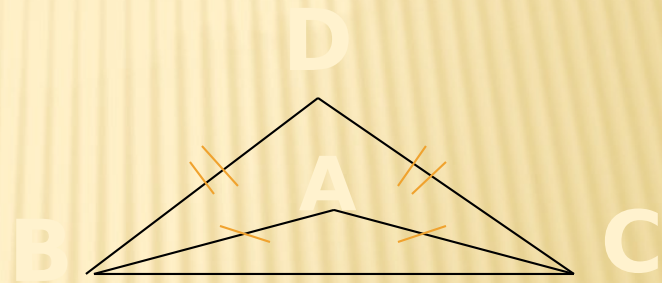
Choose the correct

$AB = AC$  ,  $DB = DC$

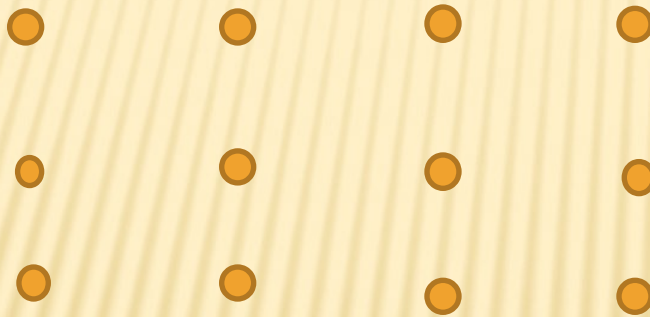
$\angle ABC = \frac{1}{2} \angle DBC$

$\angle BDC = 70$

$\angle BAC = ?$

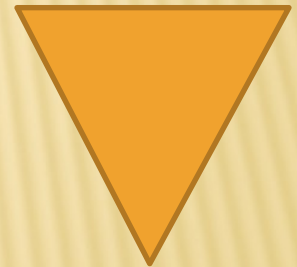
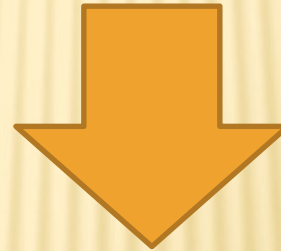
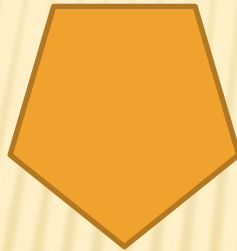
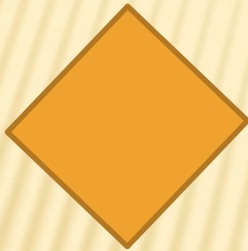


- Connect each points using 5 straight lines pass through each point once.

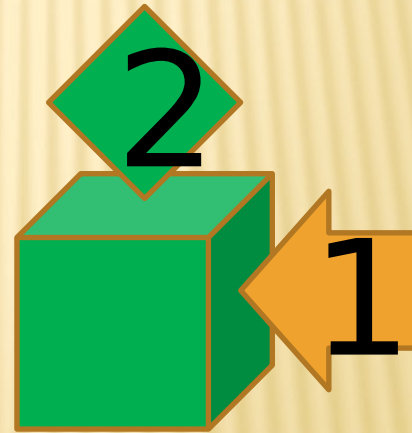




- 
- What is the common on in the following shapes ?



□ Different views of the cube in each case, complete the blank sides with the missing figures?

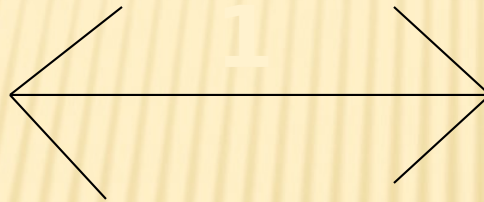


- 
- ❑ Divide the given L – shaped figure in to 4 equal size L – shape configuration.



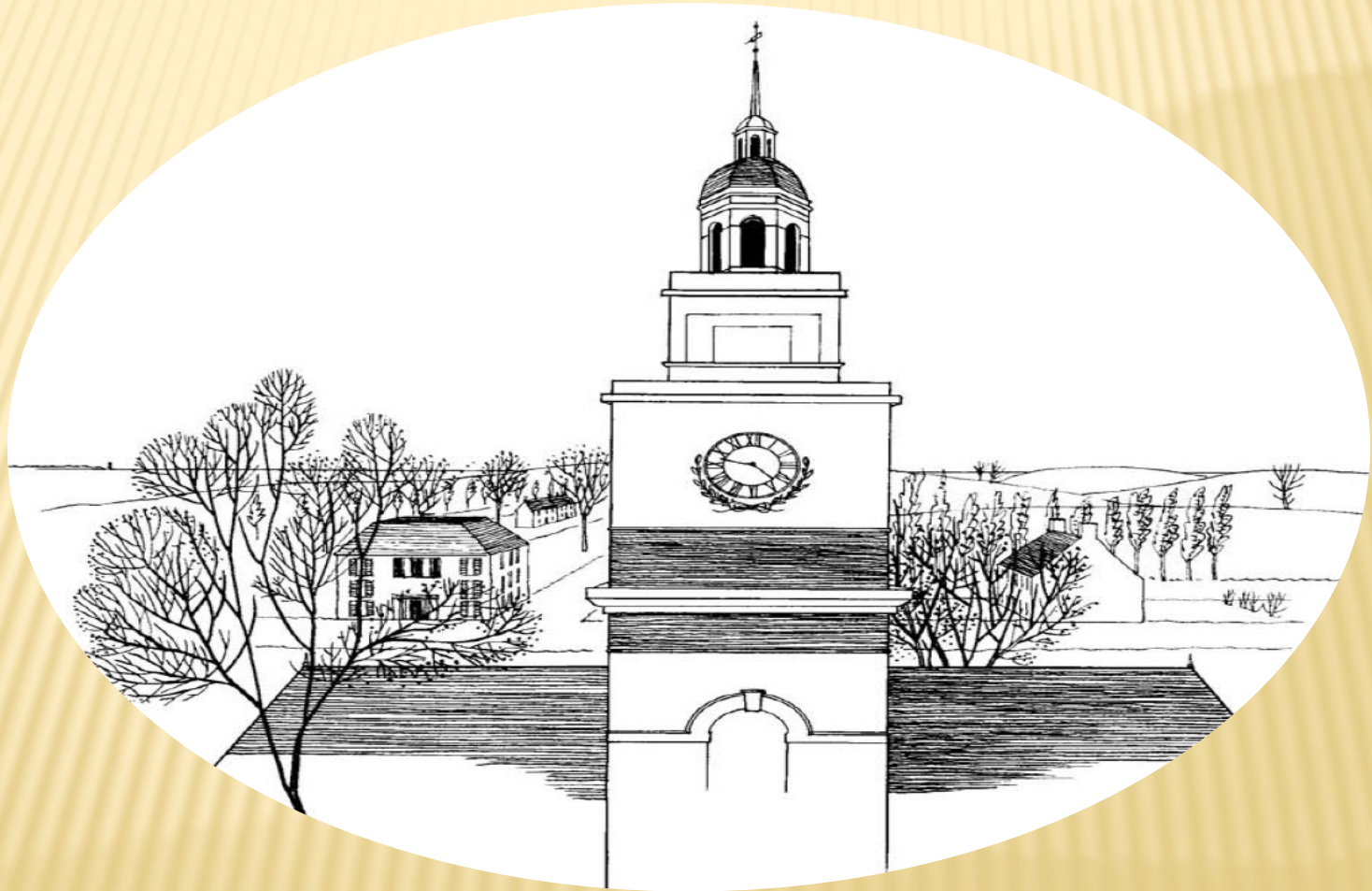
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Which line is longer?

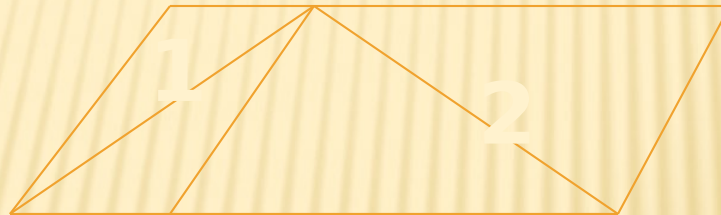


- A.1    B.2    C. There are equal    D. None

# FILL OMITTED PICTURE



- 
- Consider line 1 and 2 and determined which of the lines is longer ?



A.1

B.2

C. equal

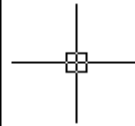
D. none

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ARCHITECTURE

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ARCHITECTURE

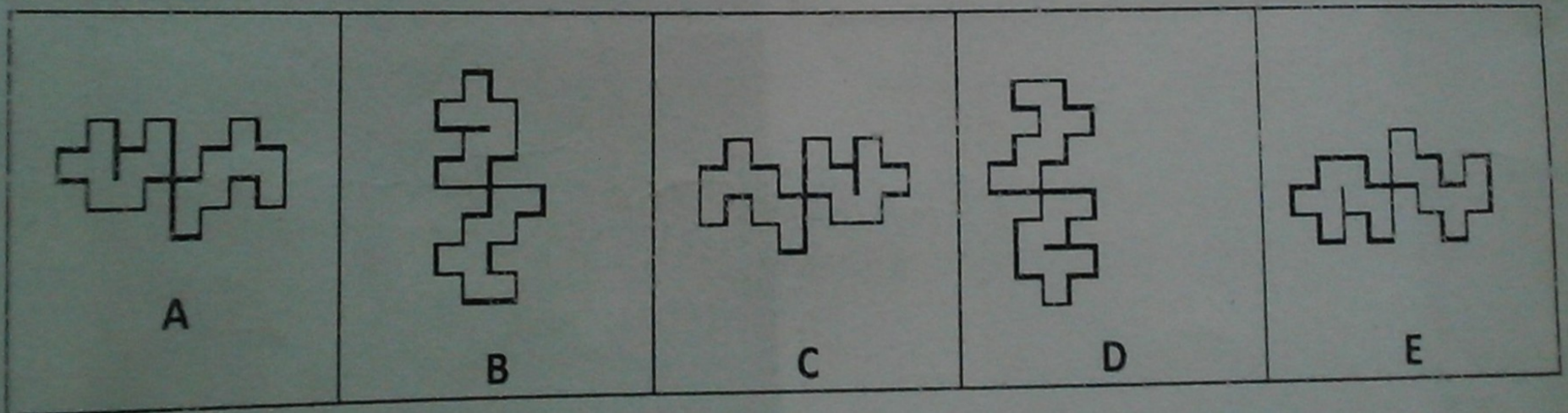
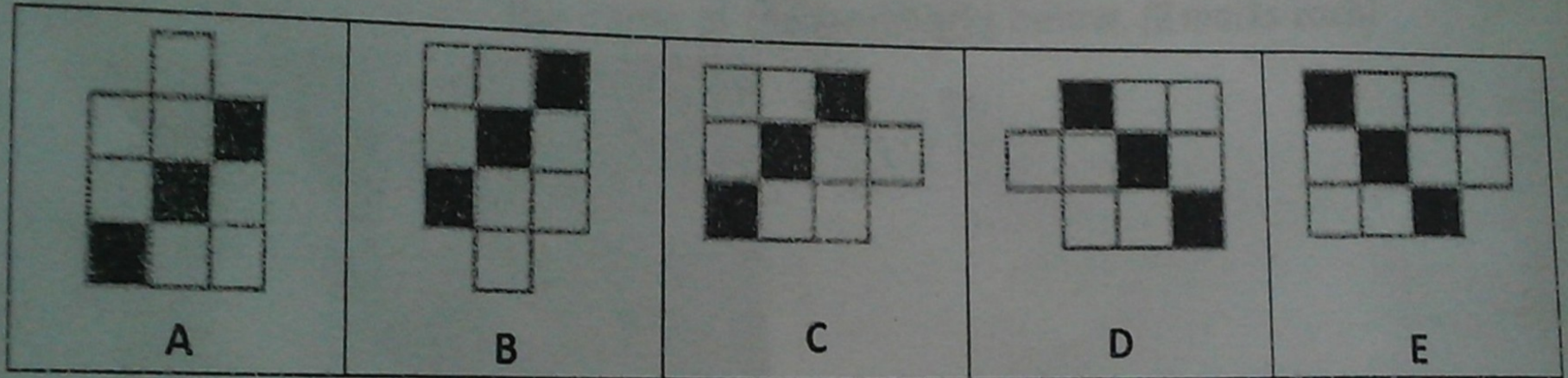


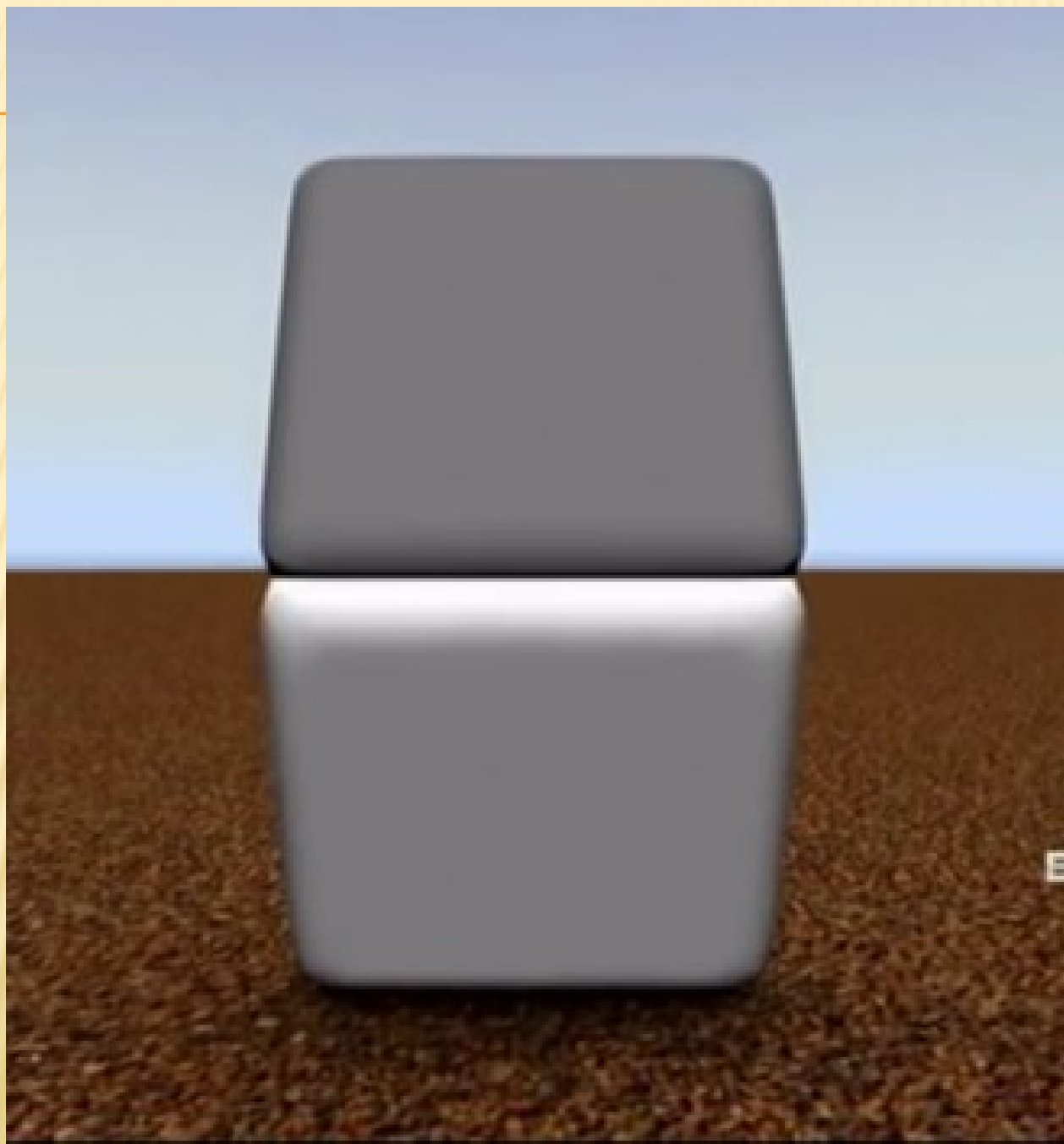
ARCHITECTURE

The lakeside windmills shown on the picture to the right are found at kinderdijk in Holland what is missing in



# CHOOSE THE ODD ONE(5MARK)





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1. WHAT IS ARCHITECTURE FOR U ?

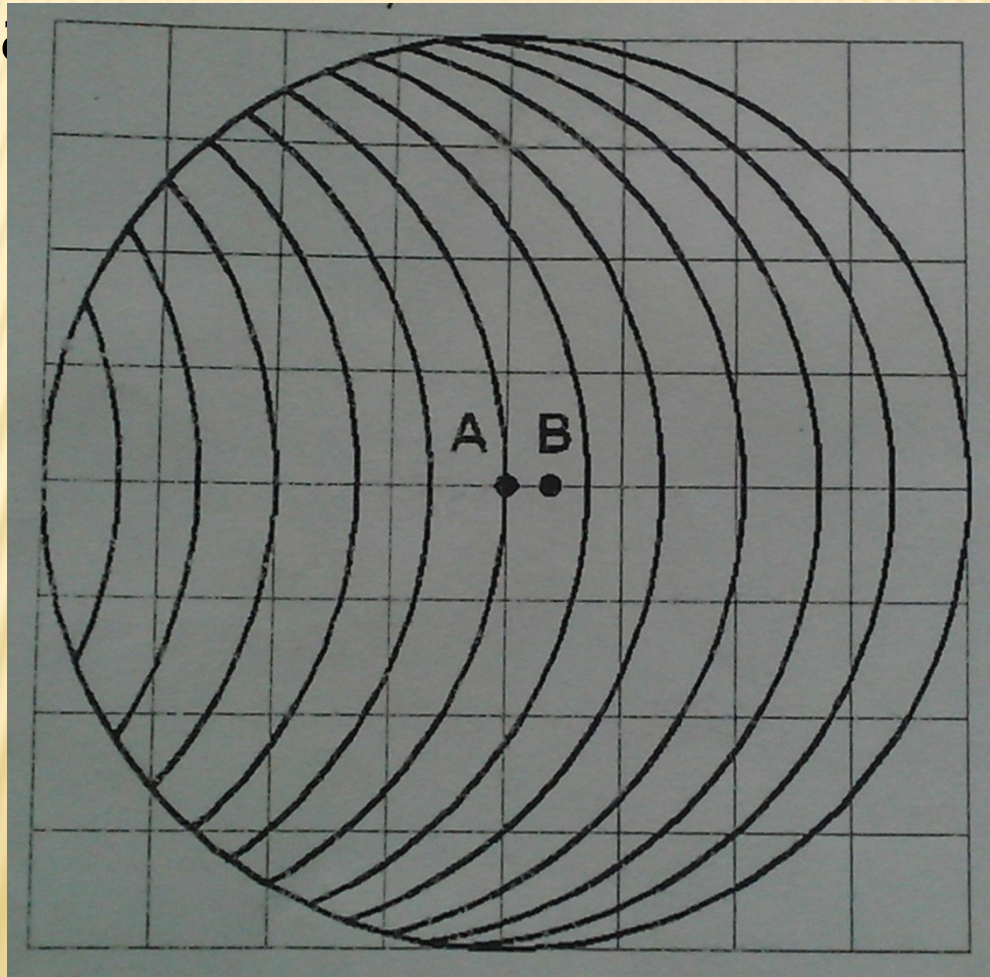
2. WHY DO U WANT TO BE AN ARCHITECT?

3. DEFINE ARCHITECTURE?

4. WHAT ARE THE WORKS OF AN ARCHITECT IN REAL LIFE?

- 
5. What is your life philosophy?
  6. Why is the sky and ocean are blue?
  7. How do you relate Isaac Newton with science of light?
  8. Name an architect and his work?

Which one seems to be the real center center of the circle drawn over a square grid? A or B? make your opening assertive (say A or B) and discuss the reasons for the illusion if there is any. (8 m



Imagine your family has acquired a new plot of land 15m\*20m for a resident adjacent to an existing bar & restaurant with a night club. List three possible measures an architect of your new house would take to overcome the noise from the adjacent night club during the night.

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**AN AIR PLANE CRUSHES IN THE  
BOARDER OF MEXICO AND USA  
WHERE WILL THE SURVIVORS  
WILL BE BURIED ?**

If a doctor gives you 3 pills and tells you to take one pill every half hour, how long would it be before all the pills had been taken?

Divide 30 by half  
and add 10. What  
do you get?

Take 2 apples from  
3 apples. What do  
you have?



The Little Mermaid  
Denmark

# US CAPITOL(USA)



# CN TOWER(CANADA)



# COLOSSEUM(ROME)



# BURJ-AL-ARAB(DUBAI)



# FALLING-WATER(USA)



# PETRONAS TWIN TOWER(MALAYSIA)



# SYDNEY OPERA (AUSTRALIA)



# ST.MARY(LONDON)



# PARTHENON(GREEK)



# PANTHENON(ROME)



# CHRIST THE REDEEMER (BRAZIL)



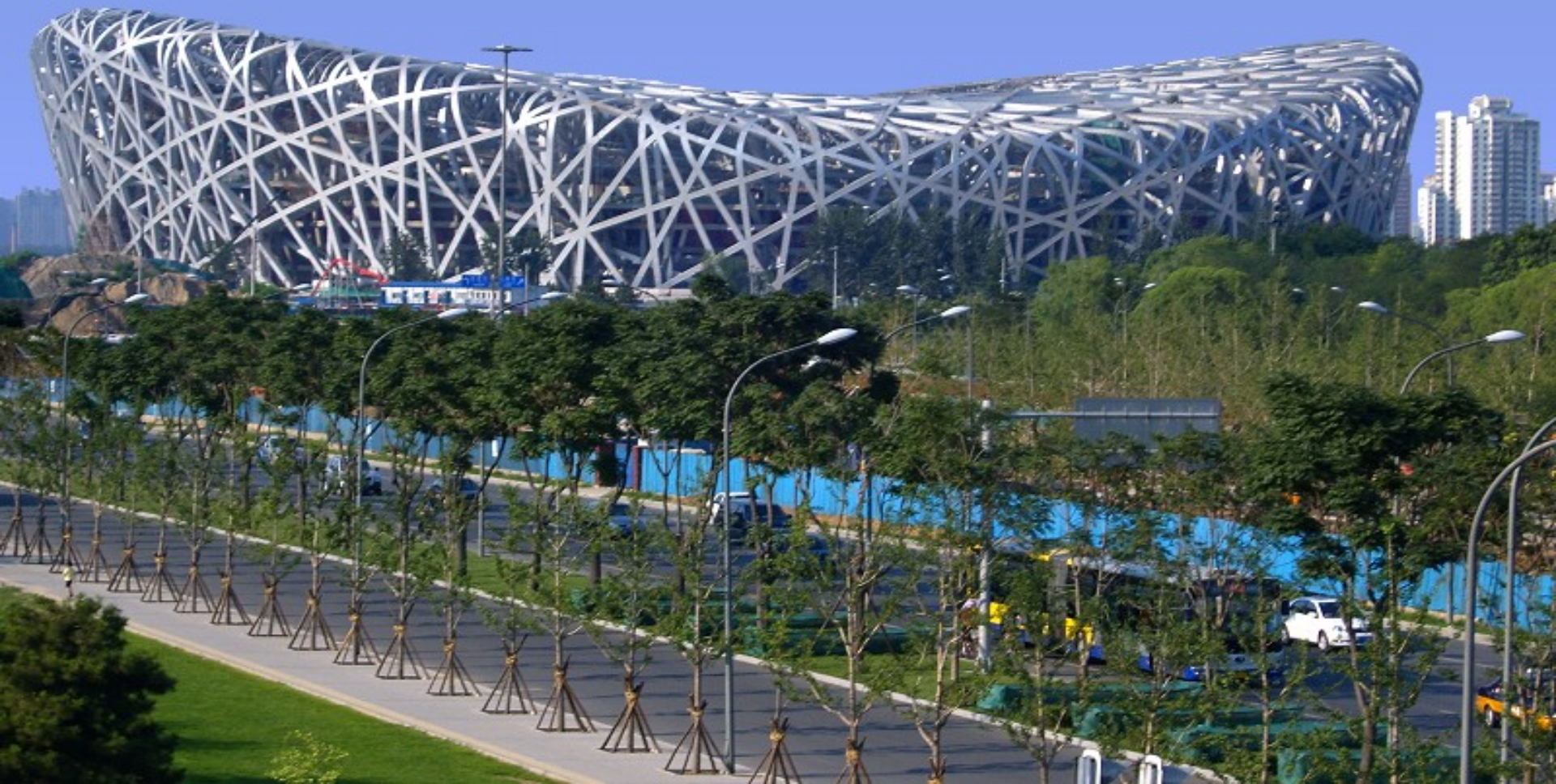
@John Packer

# HOUSE OF PARLIAMENT(ENGLAND)



# BIRD NEST (CHINA)

(c) kinabaloo.com



# BIG BEN (ENGLAND)



# EIFFEL TOWER (FRANCE)



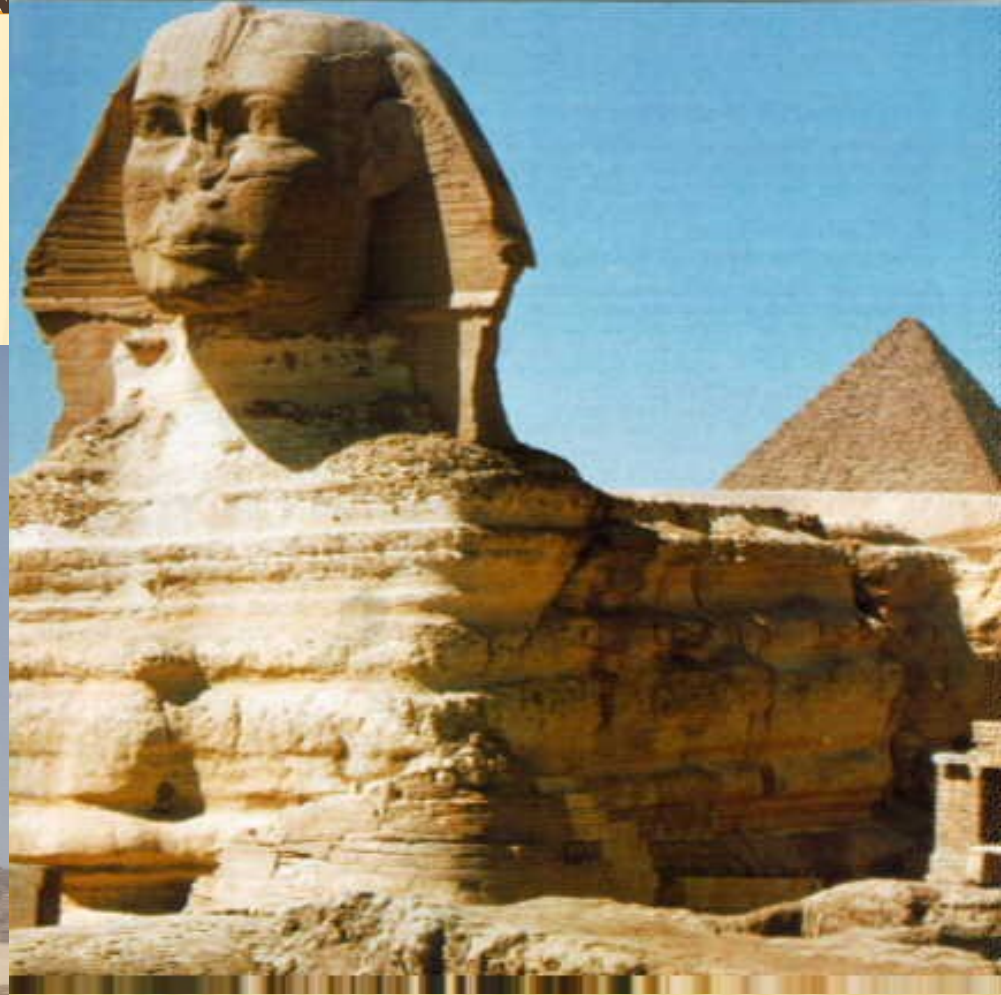
# FORBIDDEN CITY(CHINA)



# GIZA PYRAMIDS(EGYPT)



# THE GREAT SPHINX



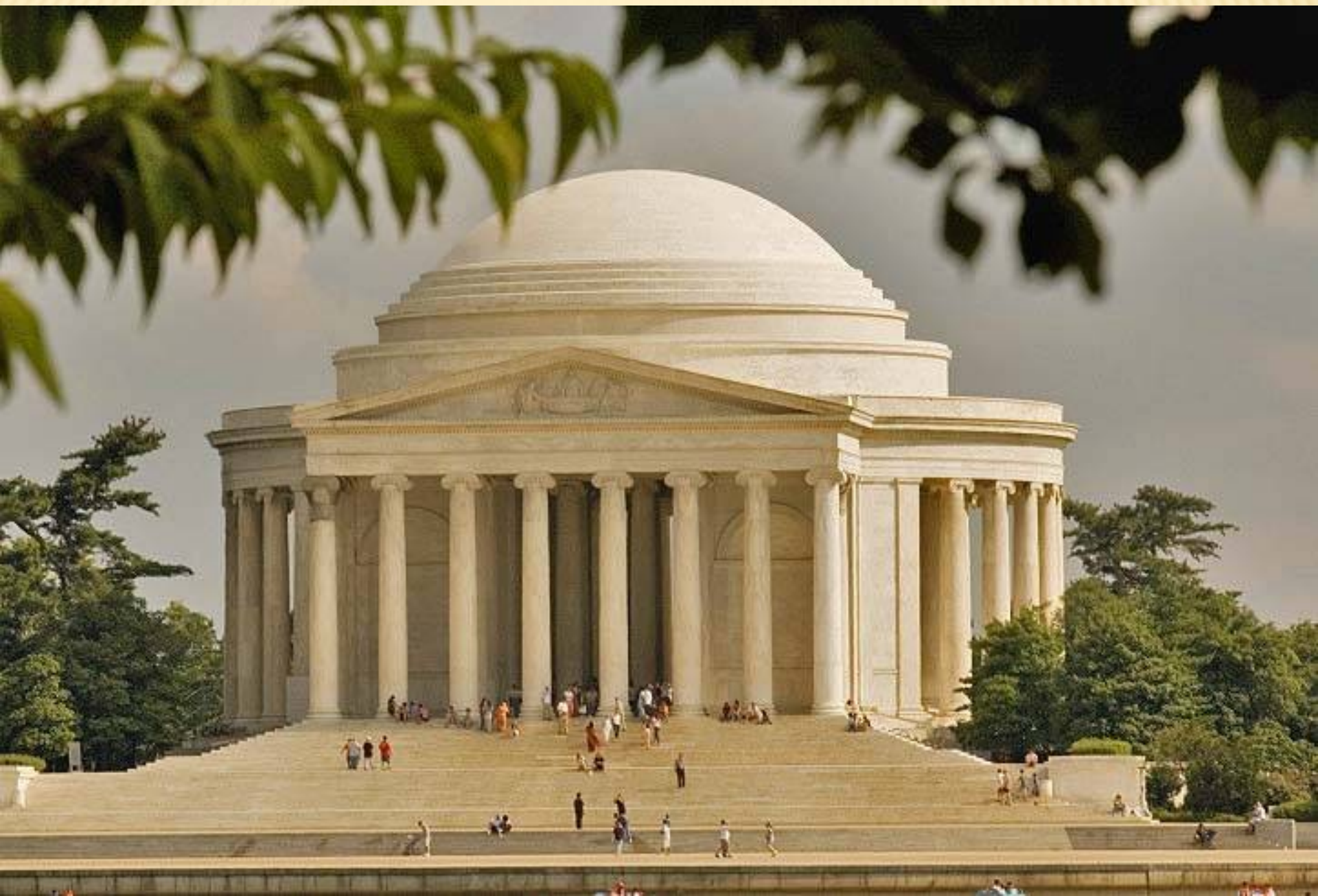
# GOLDEN-GATE-BRIDGE(USA)



# HAGIASOPHIA(ISTAMBUL)



# JEFFERSON-MEMORIAL(USA)



# LOUVRE (FRANCE)



# STATUE-LIBERTY(USA)



# ST.BASILS(MOSCOW)

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# TAJ-MAHAL(INDIA)



# TOWER OF PISA(ITALY)

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# REPLICAS OF THE ORIGINAL TSION MARYAM

## 1: LALIBELA MEDHANE ALEM

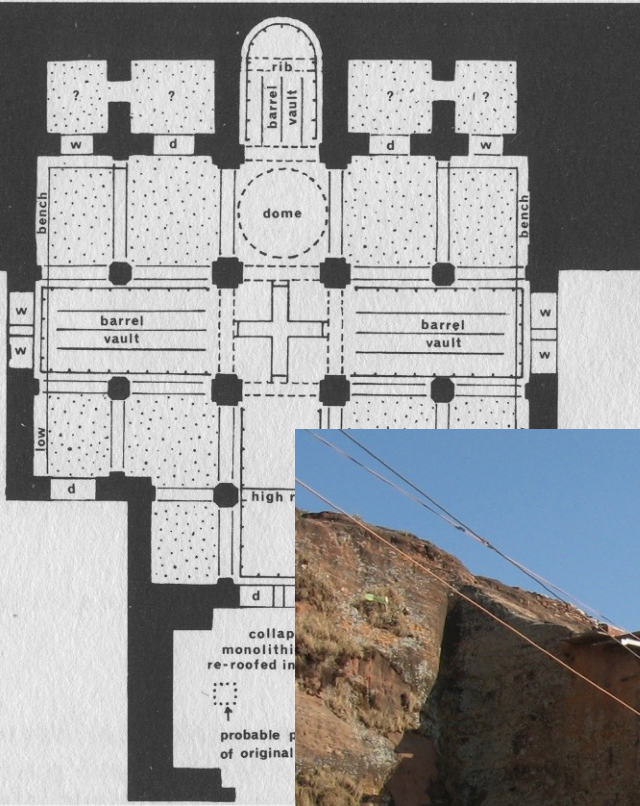


# BET GIYORGIS

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# ABRAHA WE ATSIBAHA



# GONDER CASTLE OF MENTWAB (LATE GONDARINE PERIOD)

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# REPLICAS OF THE ORIGINAL TSION MARYAM

## 2: GONDER DEBRE BERHAN SELASSIE



# RURAL BUILDINGS IN ETHIOPIA

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Lalibela:  
Two storey  
stone houses  
(*tukuls*)

# MODERN USE OF *TUKUL* SHAPE



Lalibela:  
Tukul  
Village  
Hotel

# RURAL BUILDINGS OF ETHIOPIA: THE “HIDMO” IN EASTERN TIGRAY



# MODERN “HIDMO”: GHER’ALTA LODGE



# CHIKKA HOUSES (AMHARA)



Menelik II's  
First  
*aderash*  
on Entotto  
Hill

# THE SOUTH: *ENSET* CULTURE



Dorze house in Chencha. Its “life expectancy” is about 30 years.

