(الجزء التطبيقي)

1

"   "

                            .

                    .

            (   )

                        .

                    :   ....

        .

                                .

                                                    .....

            .

                            .

                                                        .

                                                    .

                                                .

2012-4-27
omr.mhmd@ymail.com
omr-mhmd.yolasite.com

‫-‬

‫.‬

‫.‬

‫.‬

‫:‬

‫-1 ( )‬

‫-2 .‬

‫a. .‬

‫b. .‬

‫c. .‬

‫d. .‬

‫e. .‬

‫-3‬

‫-4 .‬

‫◄ ( )‬

‫)‬

‫.(.‬

‫.‬

‫.‬

‫45 .‬

.

....

.

20 .

.

.

(Steel Puzzles) 3.1

.

.

.

القطعة أ

شكل 3.1

.

:

.

3.1 10 5

.

(   )

.

"   "   (   )

.

.

1000   999   000

.   .

.

Howard)

(Carter   .

.

شكل 3.2   .

.

.

:

شكل 3.3

.(3.2   )

7

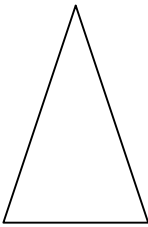1917. (   )

(3.3   .

.

.

.

(: Archaeology   ) .

.

.

..... (   )   :

( )

.

.

.

.

.

(   ) .

3.4 .

3.4

.

)

.(

…. 20 10)

(:

3.5

.

.

3.5

.3.6

12

3

3.6

.

:)

.(12

12 .

.3.7

3.7

8.3.

...

.

.....

.

3.8

:(Isaac Newton)

.

.

.

(2691 – 2648 . Djoser)

. .
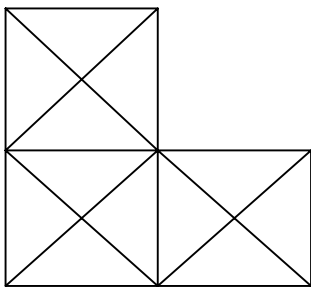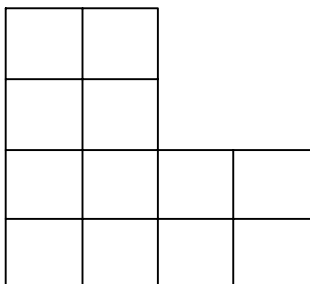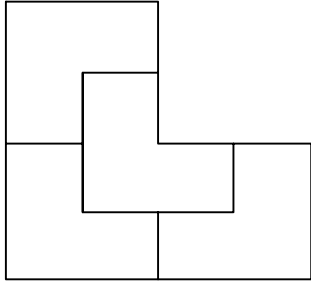
(Imhotep)

.

( ) .

( ) .

.)

.( )

(Meidum Pyramid

.

(Bent Pyramid)

.   .

.

2

.

(Khufu)

.

.

.

(   )   .....

)

.(   )   (

)

.(.(

♦ **3.2** (   ):

.

.

)   .(

.

11

♦ **3.3** ( ):

(Show

Slide)

.

.

) .(

.....

.

300 .

.

:

♦ **3.4** ( ):

. :

.

) .(

:

.

.

:

....

(" " .

)

–

(   )   .

                                    .

                                              .
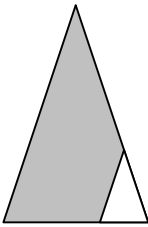

                          3   ....
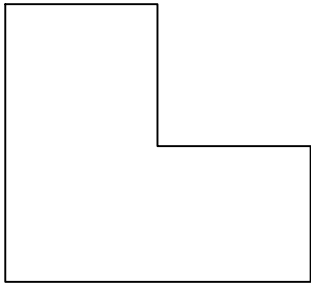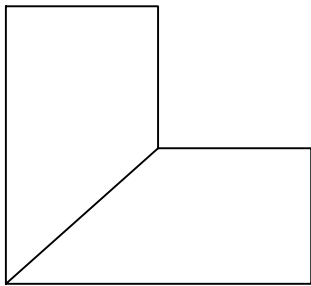

                    .

                                          :

            .   3

                          :   .

                                                  .....   #

                                                              –

                                                              –

                                                              –

                                                              –

                                                              –

                                                              –

                                                              –

                                    .

                        .

)   ....

            (

    .

.

." " :

:

" " (Brainstorming)

.

" " (Focus Group)

.

.

.(Questionnaire)

.

.

.

"

" .

....

. ( )

....

( )

. " "

14

.

.

.

.

.

.

.

.

.

.

.

.

.

)   .   ("   ")

(Thomas Edison

700   :   700   .

.   700   .

.

"I have not failed 700 times. I have not failed once. I have succeeded in proving that those 700 ways will not work. When I have eliminated the ways that will not work, I will find the way that will work."

.(Fadedgiant :   )

....

.

.   1000

.

....

.

.

.

.(   )

:

.   -1
.   -2
.   -3
.   -4

◄

(   )   .

"   "   .

.

...

16

:

.

( ) ( ).

.

.

◘

( )

.

( )

) .

(Brain Storming.

♦ **3.5 ( ):**

.

" " .

.

) (

(:)

(

.

♦ 3.6 ( ) :(

( )

.

.

( )

.... .

:

1- ( )

.

.(

2- ( ) .(

3- ( ) .(

4- ( )

.(

5- .

...

.

( )

:

6- ( )

.(

18

7- ( )

.(

8- ( ) ( )

.

.(

9- .

◘

.

(3.5)

( )

.

.

. ( )

:

.

.

♦ **3.7** ( ):

3.6 .

( )

. .

( )

.

.

.( )

: .

.

.

:

. :

: .

. . -1

-2

.

. -3

.

....

( ) .

.

◘

:

.

.

(   )   ."   "

.

♦ **3.8** (   ):

80

/   70   /   90

.   :

.

)   .(

.... :   .

:

.

.... :   .

.

:   160 /   80   .

.

.

:   .

160   80 :

.

.

.

(   )

.   .

.

:   .

.

(1   )
.   (1   )   .(1   )

:

.

.

"100   "

.   100   "100   "
"20   "   /   "20   "
.   /   20

22

.

‏(1   )

.

:

.

.(   )

.

Z

.

.

♦ **3.9** (   ):

.

.

(   ).

♦ **3.10** (   ):

.

(   ).

-2 .

-3 .
-4
-5 .

( ) ( )
(.

......

.

( )
.

. .

.

.

. .

( )
.

.

:
: .
: .

:

-1

.

-2

.

-3

.

)   ....
(.

.

("   "   )   ...
:

.

.   .

(   )   ....

.

.

♦   **3.11** (   ):

:

.

.

.

.

....

26

....

.

.( )

.( )

: .

: . .

: .

: . .

.

.

.

15 .

.

♦ **3.12** ( ):

.

.

...

( )

.

( ).

:

:

:

...

.

:

" "

:

.

:

:

:

:

:

. :

.

♦   **3.13** (   ):

3.9   .   .

.

.   :

.   :

القطعة أ

شكل 3.9

.

.( )

.(5)

.

" " (Pliers) .

.

.

....

.

.

◘

( )

. .

:

\#

\#

\#

( ) \#

\#

\#

. \#

. ....

.

.

♦ **3.14** ( ) :(

:

.

.

( )

.

شكل 3.10

( ) .( )

.... .(3.1)

.

.

:

: .
: . .
: . .
: .
: .
: . .

... .

( ) .

......   (   )

.   .

.

:

-1   .

-2   .

(   )   :

-1   .

-2   .

....   (   )

.   .

.

♦   **3.15** (   ):

.

.

)   .(

:

شكل 3.11

.

( ).

" " "

3.11. "

.

8 12 .

.

3.12.

.

شكل 3.12

( ).

3.13.

12

.

3.14.

....

.

( ) .

.

شكل 3.13

....

.

شكل 3.14

.

.

"

" " ."

: .

.

.

:

.

.

.... " " " "

" " ." " :

♦ **3.16** ( ):

(3.8))

(3.14 3.13.

.

) (

:

شكل 3.15 .

3.13   .3.15

.

.

:
                          ‎—‎

.

.

.
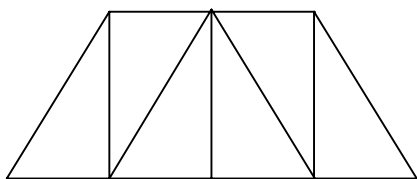
♦   **3.17 (**   **:(**

(**3.12).**

.....   .

.

(   ).

:

:
.   :
:
.   :
:   ...

♦ **3.18** ( ) :

.

3.16.

_____

شكل 3.16

(.)

:

:

:

:

.

:

.

:

:

.

.

.

:

:

.

.

.

.

....

.

.

.

♦ **3.19** ( ):

. .

....

( )

.

( ).

. :

.

:

.

:

:

.

:

:

.

:

.

:

:

.

.

♦ 3.20 (‏   ‏):

.

.

…

.

.

3.17

.(   )

.

.

.

.   (   )

:(   )

:

.   :

:

.

.

(   )   ….

:   .

.

■

(Reframing in NLP)

.

"   "   "   "

.

:   (   )

:..."

.   ..."

. (   )

.   :   ":

–   –   :

.   : [   ]

.   .   :

:

.

–

:   –

–   –   ":   .

.(5   ) ."

" "   "

.."

.   ....

( )

:   ( )

.   :

.   :

.

."   "

:

.

.

1988

."   " ( )

"

.   "

" "

.

(   )

.

.   .

.

.

.(   )

.

.

(   )

.

.

.

.

.

.   .

:

.

43

(   )

                                                          .(   )

                                                         .

                                                                        ◄

                                                .

                                                                    "   "

              .

                        .

                        .

                              .   .

(TRIZ)

                              .

                                                                    .

              .

                                                                              .

                        .

                                        .(3.9   )

                                                            .

                                                                    :

♦ **3.21** ( ):

.

.

.... " " " ."

( ).

:

.

.

( ).

:

.

.

" "

.

( )

.

♦ **3.22** ( ):

)

(

شكل 3.18 .

.

)   .(

◀

:
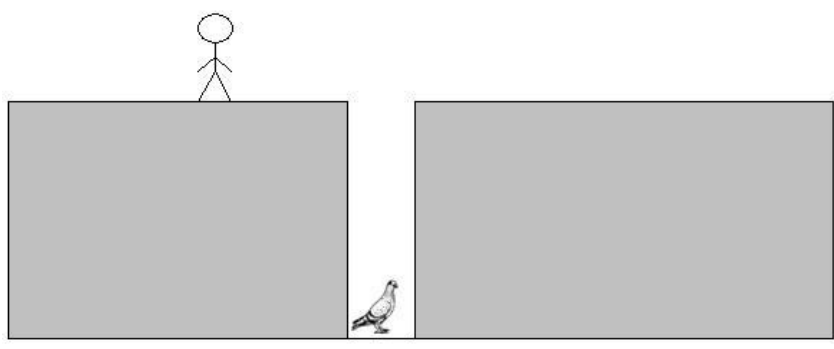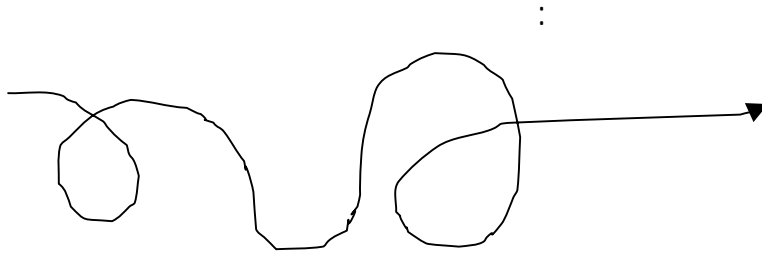
شكل 3.18

…

.

.

.

:

.

"   "   "   "

.

.

.

:   (   )

(   )   -1

.

.   .   -2

.

.

....   -3

.

.

....

.

.

(   )

:

:

.

.

.

.

.   .

.

:

♦ **3.23** (   ):

60 /   .

60 /

(   )

(**15**).

♦ **3.24** (   ):

.

(**15**).

♦ **3.25** ( ) **:**

( )

(**15**) .( )

♦ **3.26** ( ) **:**

.

(**15**) .( )

♦ **3.27** ( ) **:**

(**15**) .( )

…

. .

. .

: .

….

:

.

. .

(   ) 3.28   ♦

)

(

( ) .(

....

.(2D)
.(3D)

( )

◄

:

: .
(Science): .
: .

: .
: .

:

-1

.

-2

.

:

- .
- .
- .

: .

.

.

( )

.

( )

.

.

.

:

-1 ( ).

-2 .

. .

. .

: .

.

: .

( )

: .

.

52

3-   :   .

4-   :

)

.(

◄

" "   "

."

.

:

\#   "   "   .

.

"   " ( )   :

.   .

\#   )

.(

\#

.

\#
)

.(

.

)

(

(   )

"   " "   "

:

....   .

54

:

:

.(   )

.   .

:

)   ." "

.   (

:

.

.

.

.

:

:

(Edward de Bono)   #

.

.(Brainstorming)

.(TRIZ)   #

(Problem Re-definition)   #

.

#

(NLP)

#

#

(Double loop learning)　　　　　　Chris Argyris and Donald)

(Schön 1978.

"　　　　"

#

#

#　　　　(　　　)

"

"

(　　　)

◄

.　　　　　:　　(1968)　　　　　　＿＿＿＿＿（　　　）

◄

Bandler, Richard. and Grinder, John (1990) <u>Frogs into princes: neuro linguistic programming</u> UK: Eden Grove.
Bandler, Richard. and Grinder, John (1982) <u>Reframing : neuro-linguistic programming and the transformation of meaning</u> US: Real People.
De Bono, Edward (1982) <u>Lateral Thinking for Management</u> UK: Penguin.
O'Connor, J. and Seymour, J. (1993) <u>Introducing NLP</u> UK:Thorsons

Archaeology, http://www.age-of-the-sage.org/archaeology/howard_carter.html
Fadedgiant, http://www.fadedgiant.net/html/edison_thomas_alva_quotes.htm

◄

:

. : (2012)

( ) :

. : (2012)

:

. : (2012)

:

.

. : (2011)

. : (2000) 1379 :

. : (1999)

: pdf :

omr-mhmd.yolasite.com