برعاية معالي وزير التربية والتعليم و التعليم الفنى

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وتوجيهات رئيس الإدارة المركزية للتعليم العام

د/ هالة عبد السلام خفاجى

إشراف علمي

مستشار الرياضيات

أ/ منال عزقول

أداءات وتقييمات لمنهج تطبيقات الرياضيات لغات

للصف الثانى الثانوي "علمى"

الفصل الدراسى الأول

للعام الدراسي 2025 / 2026

الأسبوع العاشر

لجنة الإعداد

أ/ محمد عبد العاطى   أ/ محمود السيد محمد   أ/ عفاف جاد

ترجمة

أ/ محمود سليمان نظيم

مراجعة الترجمة

أ/ شريف البرهامى

(1) *State the number of lines that pass through a given two point.*

(2) *State the number of planes that pass through three non collinear given points.*
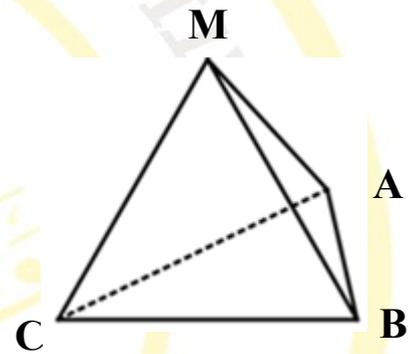
(3) *Complete the following:*

    (a) *If the straight-line L_1 // line L_2 , then $L_1 \cap L_2$ = …….*

    (b) *If plane X $\cap$ plane Y = $\emptyset$, then: plane X ……… plane Y*

(4) *In the opposite figure:*

    (a) *State the straight lines passes through point B.*
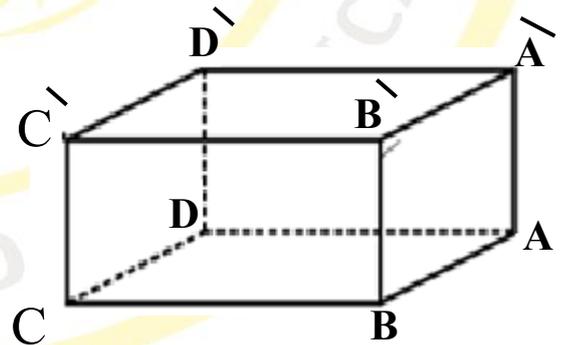
    (b) *State the straight lines passes through point M.*

(5) *Meditate the opposite figure, and then answer the following questions:*

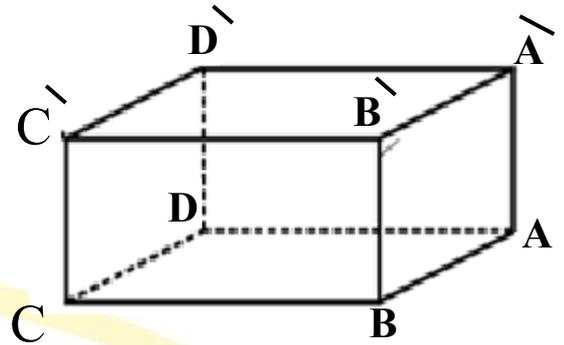*(a) Write three straight lines passes through point B.*

(b) Write three planes passes through point B.

(6) *Meditate the opposite figure, and then answer the following questions:*

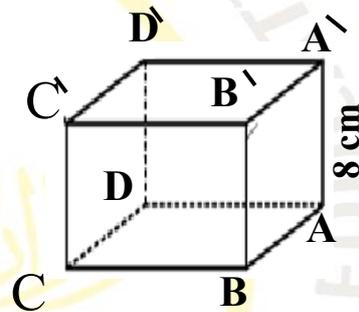*(a) Write the straight lines that passes through points C and D together*

(b) *Write three planes that Passes through points C and D together.*

(7) *In the opposite figure:*

ABCDÀ B̀ Ċ D̀ is a cube its edge length 8 cm

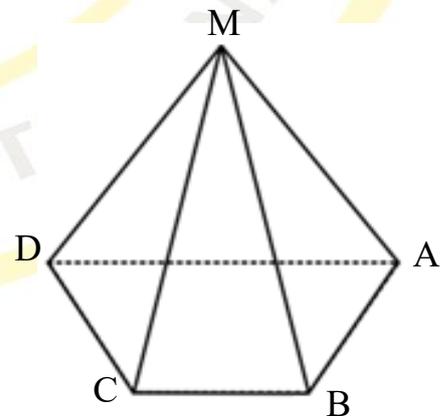**(a)** *Find the length of $\overline{BD}$*

(b) *Find the length of $\overline{AĊ}$*

(8) *Meditate the opposite figure, and then answer the following questions:*

(a) *How many planes have faces in the figure?*

(b) *Mention two lines that have two edges in the figure and each one is skew with the line $\overleftrightarrow{AC}$*
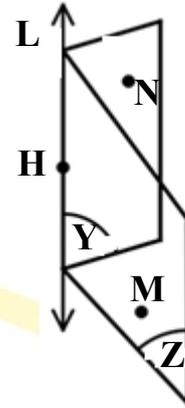
(9) *In the opposite figure:*

Plane Y ∩ plane Z = line L,

H ∈ L, N ∈ Y, N∉Z, M ∈ Z, M∉Y

Complete the following:

(a) *Plane Y ∩ plane HNM = ………*

(b) *Plane Z ∩ plane HNM = ………*

(c) *Plane Y ∩ Plane Z ∩ plane HNM = ………*

(10) *In the opposite figure:*

Complete the following:

(a) plane ÀḂĊ ∩ plane ABC= ………

(b) Plane ABC ∩ plane ACĊ= ………

(11) *Meditate the opposite figure,*
and then complete the following
statements with the suitable
from the following (∈ , ∉ , ⊂ , ⊄)

(a) *L ……… plane X*

(b) *A ……… plane X*

(c) *C ……… plane Y*

(d) *$\overleftrightarrow{BC}$ ……… plane Y*

(12) *Meditate the opposite figure,*
   and then complete:
   (a) $\overleftrightarrow{AB} \cap \overleftrightarrow{\grave{A}\grave{B}}$= ....
   (b) $\overleftrightarrow{B\grave{B}} \cap plane\grave{A}\grave{B}\grave{C}$ = ...

(13) *Mention the number of planes that pass through three non collinear points.*

(14) *In a triangular regular pyramid, Mention the number of edges and the number of lateral faces.*

(15) *In a pentagonal regular pyramid, Mention the number of vertices of the base and the number of lateral edges.*
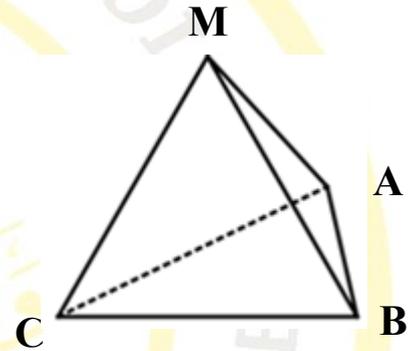
(1) State the number of lines that pass through a given point.

(2) State the number of planes that pass through two given points

(3) Complete the following:

  (a) If the straight-line L // plane X, A ∈ X then: L ∩ X = …….

  (b) If the straight-line L ⊂ plane X, A ∈ X then: L ∩ X = …….
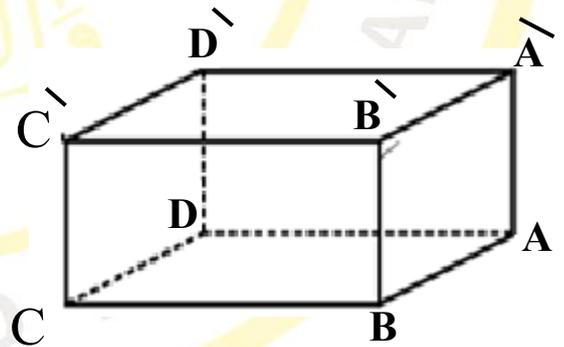
(4) In the opposite figure:

  (a) State the number of straight lines passes through point A.

  (b) State the number of straight lines passes through point C.

(5) Meditate the opposite figure, and then Answer the following questions:

  (a) Write three straight lines passes through point A.

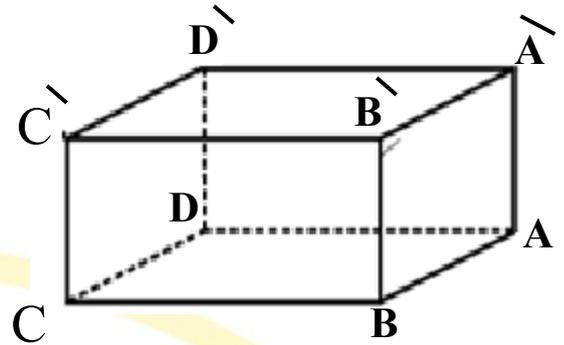 **(b)** Write three planes passes through point C.

(6) **Meditate the opposite figure, and then Answer the following questions:**

(a) Write the straight lines that passes through points A and B together

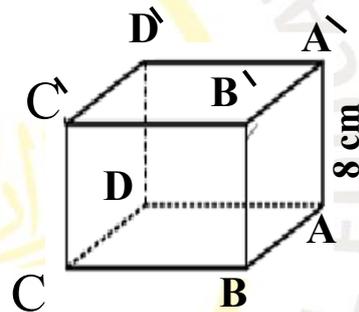**(b) Write three planes That Passes through points A and B together**

(7) **In the opposite figure:**

ABCDÀ B̀ C̀ D̀ is a cube, its edge length **8 cm.**
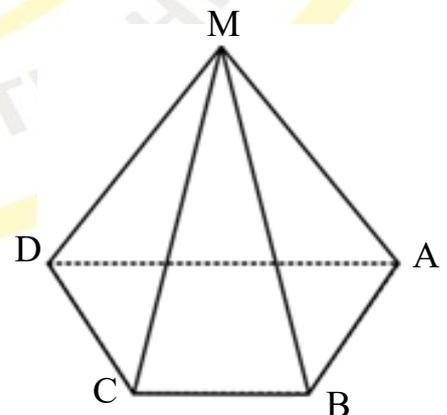
(a) Find the length of $\overline{AC}$

(b) Find the length of $\overline{BD̀}$

(8) **Meditate the opposite figure, and then answer the following questions:**

(a) How many planes have faces in the figure?

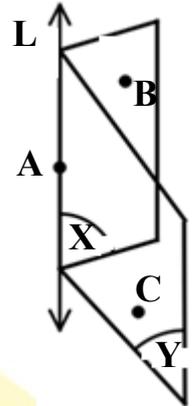(b) Mention two lines that have two edges in the figure and each one is skew with the line $\overleftrightarrow{CD}$

(9) In the opposite figure:

plane X ∩ plane Y = line L,
A ∈ L, B ∈ X, B∉Y, C∈ Y, C ∉ X
Complete the following:
  (a) Plane X ∩ plane ABC = ………
  (b) Plane Y ∩ plane ABC = ………
  (c) Plane X ∩ Plane Y ∩ plane ABC = ………

(10) In the opposite figure:

Complete the following:
(a) Plane ABB̀ ∩ plane BCC̀= ………
(b) Plane ABC ∩ planeÀB̀C̀= ………

(11) Meditate the opposite figure,
and then complete the following
statements with the suitable
from the following
(∈ , ∉ , ⊂ , ⊄)
   (a)   L ……… plane X
   (b)   A ……… plane X
   (c)   C……… plane Y
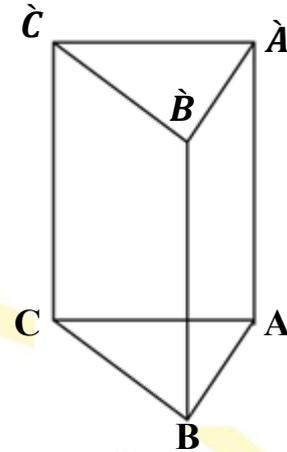   (d) $\overleftrightarrow{BC}$……… plane Y

(12) In the opposite figure:

  Complete the following:

(a) $\overleftrightarrow{AC} \cap \overleftrightarrow{A\grave{C}}$ = ………

(b) $\overleftrightarrow{B\grave{B}} \cap$ Plane ABC = ………..

(13) Mention three cases in which a plane is determined in space.

(14) In a triangular regular pyramid, mention the number of edges and the number of lateral faces.

(15) In a pentagonal regular pyramid, mention the number of vertices of the base and the number of lateral edges.