تم تحميل هذا الملف من موقع المناهج الإماراتية

*للحصول على أوراق عمل لجميع الصفوف وجميع المواد اضغط هنا

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Ain Jaloot School

2020-2021

تعليم

Answer

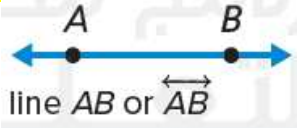
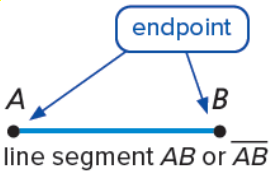
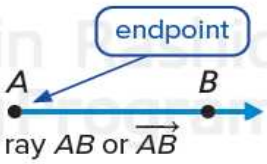
Chapter 12

Geometry

Ain Jaloot SCHOOL CHAPTER 12 … (TERM 3) 2020-2021 G4

LESSON 1 … Draw points , lines and rays

(الهدف) Outcomes: I can Draw Points, Lines , Rays and identify each figures

Point A	Line AB	Line segment AB	ray AB
A			
An exact location represented by a dot	a straight set of points that extend forever in opposite direction	A part of a line between two endpoint	One endpoint and one direction without ending

Q1 : Choose the correct answer:

1) Which is the correct way to represent the figure :

a) $\overline{VZ}$ b) $\overrightarrow{VZ}$ c) $\overleftrightarrow{VZ}$

2) Which is the correct way to represent the figure :

a) $\overrightarrow{MN}$ b) $\overleftrightarrow{MN}$ c) $\overline{MN}$

3) Which correct name of the figure :

a) line segment b) ray c) line

4) A .....is part of a line between two endpoints

a) line segment b) ray c) line

Q2 : Draw each figures :

1) Point T

2) $\overleftrightarrow{YZ}$

3) $\overrightarrow{CR}$

4) $\overline{AW}$

Q3 : Word problem :

Identify the figure that is shown on the stop sign.

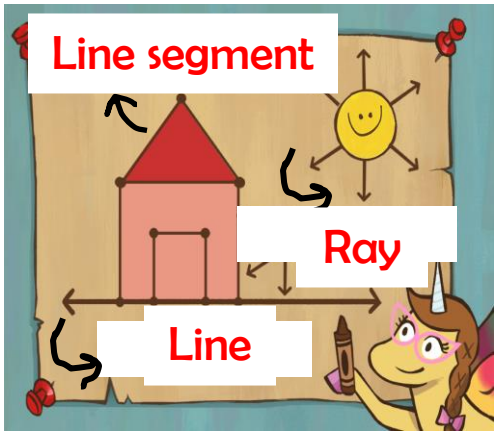
Line segment

Write :

Line

Ray

Line segment



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LESSON 2 ... Draw parallel and perpendicular lines

(الهدف) Outcomes: We are learning about a intersecting-parallel and perpendicular

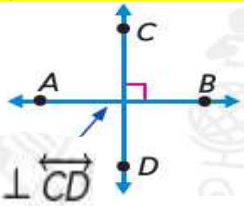
Types of lines

Parallel lines

$\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$

Always the same distance (not meet)

Perpendicular lines

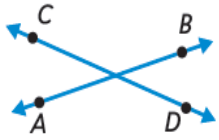


$\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$

Meet or cross each other

متعامدان (square corner)

intersecting lines

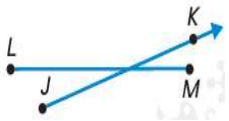


$\overleftrightarrow{AB}$ Intersects $\overleftrightarrow{CD}$

Meet or cross each other

(متقاطعان)

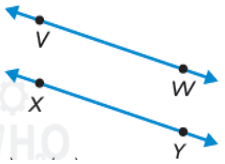
Q1 : Choose the correct answer :



1) In This figure $\overline{LM}$ and $\overrightarrow{JK}$ are :

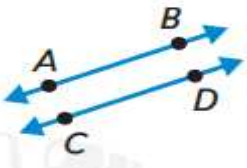
a) Parallel b) Perpendicular (c) intersecting

2) In This figure $\overleftrightarrow{VW}$ and $\overleftrightarrow{XY}$ are :



(a) Parallel b) Perpendicular c) intersecting

3) What is the correct description of the figure :

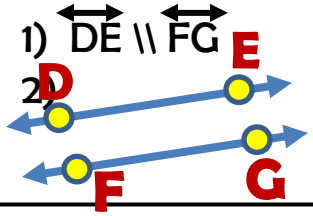


(a) $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$ b) AB intersect CD c) $\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$

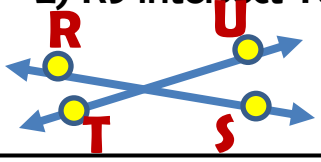
Q2 : Draw each figures :

1) $\overleftrightarrow{DE} \parallel \overleftrightarrow{FG}$

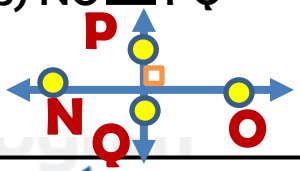
2)



2) $\overleftrightarrow{RS}$ intersect $\overleftrightarrow{TU}$



3) $\overleftrightarrow{NO} \perp \overleftrightarrow{PQ}$



Q2 : word problem :

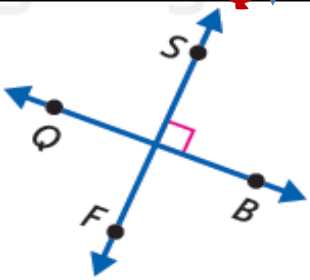
Ismail's school is at the corner of High Street and Second Avenue. The corner forms a right angle. How might he describe the way the streets meet at his school?

Ⓐ The streets are parallel.

Ⓑ The streets are intersecting, but not perpendicular.

Ⓒ The streets never meet.

(Ⓓ) The streets are perpendicular.



Which is the correct description of the figure?

Ⓐ $\overleftrightarrow{QB} \parallel \overleftrightarrow{SF}$ Ⓒ $\overleftrightarrow{QS} \perp \overleftrightarrow{BF}$

(Ⓑ) $\overleftrightarrow{QB} \perp \overleftrightarrow{SF}$ Ⓓ $\overleftrightarrow{QS} \parallel \overleftrightarrow{BF}$

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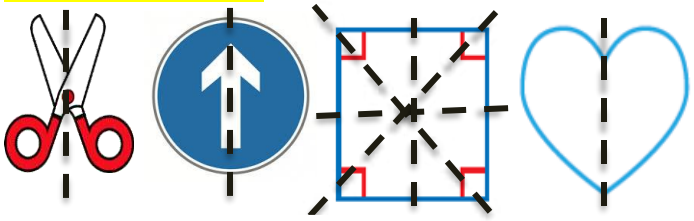
LESSON 3 ... Draw lines of symmetry

(الهدف) outcome: I can identify figures with a line of symmetry (equal part)

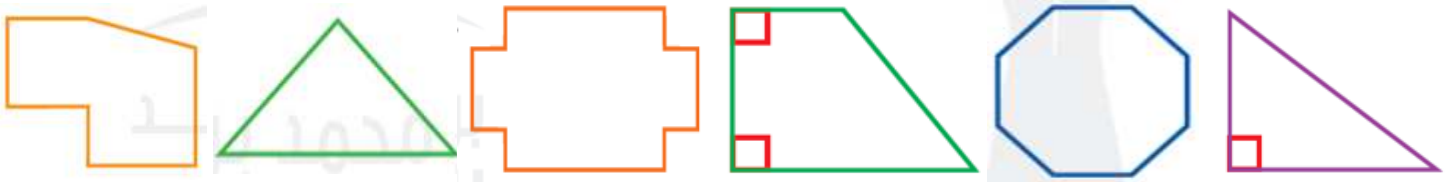
Line symmetry : a line make that one half of the figure matches the other half



have line symmetry

Don't have line symmetry

Q1 : Determine whether each figure has line symmetry, write yes or no:



NO | Yes | Yes | NO | Yes | NO

Q2 : Choose the correct answer :

1) How many line symmetry in this figure :

a) 0 b) 1 c) 2

2) How many line symmetry in this figure :

a) 0 b) 1 c) 2

3) How many line symmetry in square :

a) 0 b) 2 c) 4

4) How many line symmetry in rectangle :

a) 0 b) 2 c) 4

Q3 : Problem solving:

Mathematical Practices 2 **Stop and Reflect** Laila saw this sign on her way home from school. Does this sign have line symmetry? Explain.

3 line symmetry

How many lines of symmetry does the sign have?

Ⓐ 3 Ⓒ 1

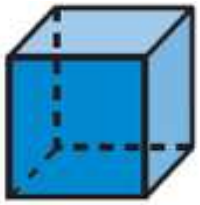
Ⓑ 2 Ⓓ 0

Ain Jaloot SCHOOL CHAPTER 12 ... (TERM 3) 2020-2021 G4

LESSON 4+5 ... Three dimensional figures (3D) Prisms

(الهدف) Outcomes: find names of 3D and number of faces, edges and vertex

Cube



All faces are congruent square

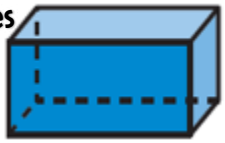
Faces = 6

Edges = 12

Vertex = 8

Rectangular prism

6 rectangle faces



Faces = 6

Edges = 12

Vertex = 8

Triangular prism

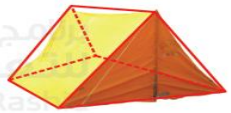
Triangle bases

Faces = 5

Edges = 9

Vertex = 6

Q1 : Choose the correct answer :



1) Identify the figure :

a) cube b) rectangular prism c) triangular prism

2) How many faces in rectangular prism :

a) 5 b) 6 c) 8

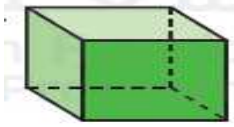
3) How many vertex in triangular prism :

a) 5 b) 6 c) 8

4) All the faces in a cube :

a) square b) rectangle c) triangle

5) How many edges in this figure :



a) 6 b) 9 c) 12

Q2 : word problem :

1) Jamal made a simple drawing of his house. It is a three-dimensional figure with four faces that are rectangular and two that are square. What kind of figure is it?

Rectangular prism

2) A toy box has 6 faces that are squares. There are 12 edges and 8 vertices. Identify the shape of the toy box.

..... Cube .....

3) Which statement is true about the three-dimensional figure that most closely represents the slice of pie?

Ⓐ The figure has 4 vertices.

Ⓑ The figure has 6 vertices.

Ⓒ The figure has 8 vertices.

Ⓓ The figure has 9 vertices.

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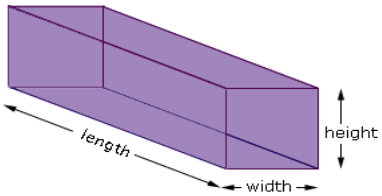
LESSON 6+7 ... Volume of Prisms (V)

(الهدف) Outcomes: Volume (V) = length (L) x width (W) x height (H)

Volume: is the amount of space inside a 3D figure

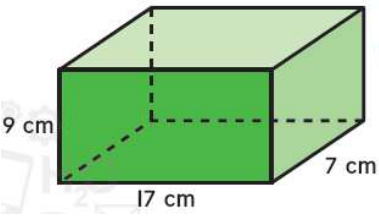
$V = l \times w \times h$

$V = B \times h$



volume (V)
.length (l)
.width (w)
.height (h)

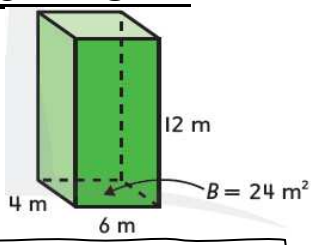
Q1 : Find the volume of Prism :



$V = 17 \times 7 \times 9$

$V = 119 \times 9$

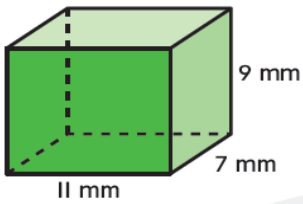
$V = 1{,}071\ cm^3$



$V = B \times h$

$V = 24 \times 12$

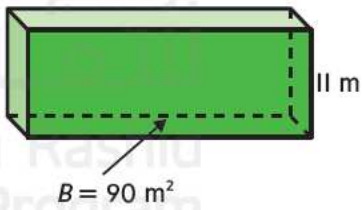
$V = 288\ m^3$



$V = 11 \times 7 \times 9$

$V = 77 \times 9$

$V = 693\ mm^3$



$V = B \times h$

$V = 90 \times 11$

$V = 990\ m^3$

Q2 : Problem Solving :

1) Find the volume of the Frog Queen building in Graz, Austria. The building is 18 meters long, 17 meters tall, and 18 meters wide.

$V = 18 \times 18 \times 17$

$V = 324 \times 17$

$V = 5{,}508\ m^3$

2) Rana keeps her recipes in a box with dimensions 18 centimeters, 13 centimeters, and 10 centimeters. What is the volume of the box?

$V = 18 \times 13 \times 10$

$V = 234 \times 10$

$V = 2{,}340\ cm^3$

What is the volume of the prism shown at the right?

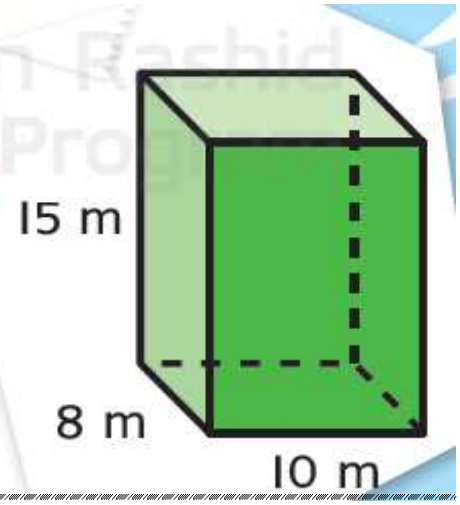
Ⓐ 1,000 m^3

Ⓑ 1,200 m^3

Ⓒ 1,500 m^3

Ⓓ 1,800 m^3

$V = 10 \times 8 \times 15$

$V = 80 \times 15$

$V = 1{,}200\ m^3$