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Ain Jaloot School
2020-2021



Chapter 12


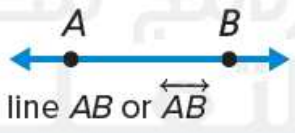
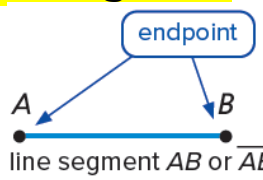
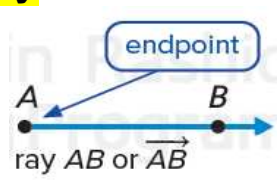
Geometry



LESSON 1 ... Draw points , lines and rays

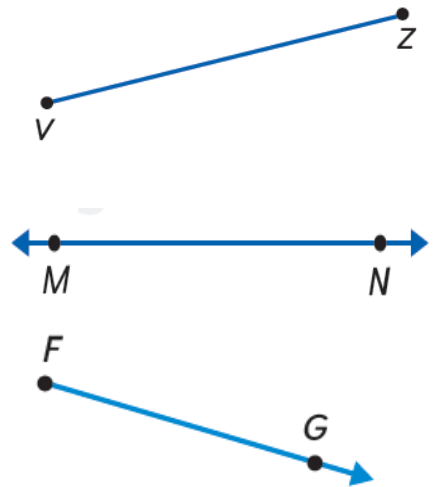
(الهدف) Outcomes: I can Draw Points, Lines , Rays and identify each figures



<p>Point A</p>  <p>An exact location represented by a dot</p>	<p>Line AB</p>  <p>a straight set of points that extend forever in opposite direction</p>	<p>Line segment AB</p>  <p>A part of a line between two endpoint</p>	<p>ray AB</p>  <p>One endpoint and one direction without ending</p>
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Q1 : Choose the correct answer:

- Which is the correct way to represent the figure :
 - \overline{VZ}
 - \vec{VZ}
 - \overleftrightarrow{VZ}
- Which is the correct way to represent the figure :
 - \vec{MN}
 - \overleftrightarrow{MN}
 - \overline{MN}
- Which correct name of the figure :
 - line segment
 - ray
 - line
- Ais part of a line between two endpoints
 - line segment
 - ray
 - line

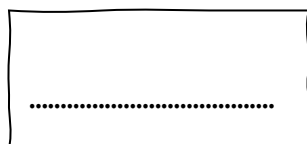


Q2 : Draw each figures :

1) Point T	2) \overleftrightarrow{YZ}	3) \vec{CR}	4) \overline{AW}
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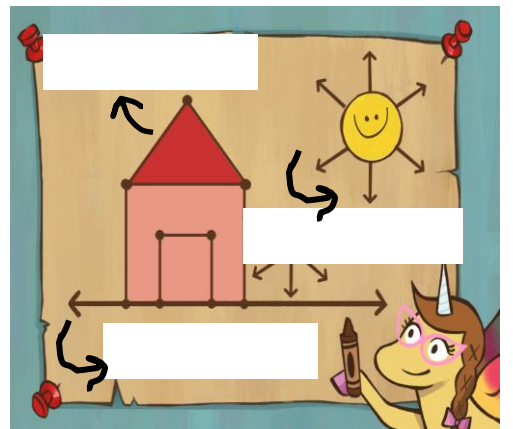
Q3 : Word problem :

Identify the figure that is shown on the stop sign.



Write :

- Line
- Ray
- Line segment





LESSON 2 ... Draw parallel and perpendicular lines

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

<p>Parallel lines</p> <p>$\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$</p> <p>Always the same distance (not meet)</p>	<p>Perpendicular lines</p> <p>$\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$</p> <p>Meet or cross each other متعامدان (square corner)</p>	<p>intersecting lines</p> <p>\overleftrightarrow{AB} intersects \overleftrightarrow{CD}</p> <p>Meet or cross each other (مقاطعان)</p>	<p>Types of lines</p>
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Q1 : Choose the correct answer :

1) In This figure \overleftrightarrow{LM} and \overleftrightarrow{JK} are :

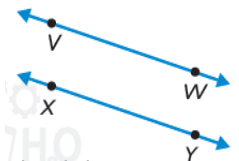
- a) Parallel b) Perpendicular



c) intersecting

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

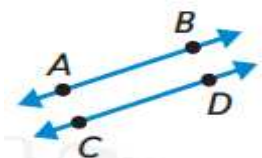
- a) Parallel b) Perpendicular



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

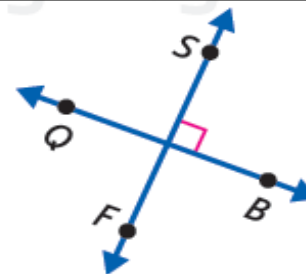
2) \overleftrightarrow{RS} intersect \overleftrightarrow{TU}

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?

- (A) The streets are parallel.
- (B) The streets are intersecting, but not perpendicular.
- (C) The streets never meet.
- (D) The streets are perpendicular.



Which is the correct description of the figure?

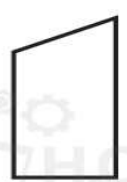
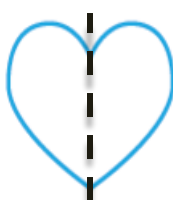
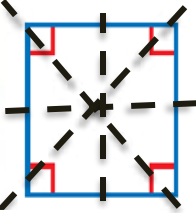
- (A) $\overleftrightarrow{QB} \parallel \overleftrightarrow{SF}$
- (B) $\overleftrightarrow{QB} \perp \overleftrightarrow{SF}$
- (C) $\overleftrightarrow{QS} \perp \overleftrightarrow{BF}$
- (D) $\overleftrightarrow{QS} \parallel \overleftrightarrow{BF}$



LESSON 3 ... Draw lines of symmetry

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

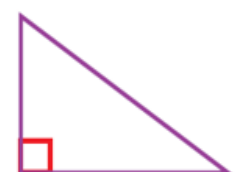
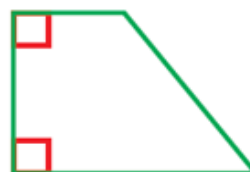
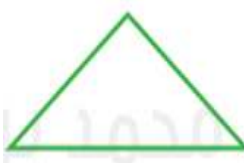
Line symmetry : a line make that one half of the figure matches the other half



have line symmetry

Don't have line symmetry

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



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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



Stop and Reflect Laila saw this sign on

her way home from school. Does this sign have line symmetry? Explain.



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How many lines of symmetry does the sign have?

(A) 3

(C) 1

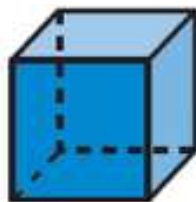
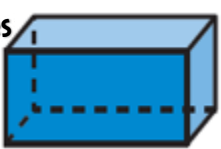

(B) 2

(D) 0



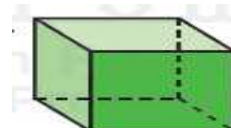
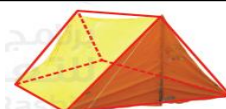
LESSON 4+5 ... Three dimensional figures (3D) Prisms

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

<p>Cube All faces are congruent square</p> <p>Faces = 6</p> <p>Edges = 12</p> <p>Vertex = 8</p> 	<p>Rectangular prism 6 rectangle faces</p> <p>Faces = 6</p> <p>Edges = 12</p> <p>Vertex = 8</p> 	<p>Triangular prism Triangle bases</p> <p>Faces = 5</p> <p>Edges = 9</p> <p>Vertex = 6</p> 
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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?
- 2) A toy box has 6 faces that are squares. There are 12 edges and 8 vertices. Identify the shape of the toy box.
- 3) Which statement is true about the three-dimensional figure that most closely represents the slice of pie?
 - (A) The figure has 4 vertices.
 - (B) The figure has 6 vertices.
 - (C) The figure has 8 vertices.
 - (D) The figure has 9 vertices.

Easy as pie





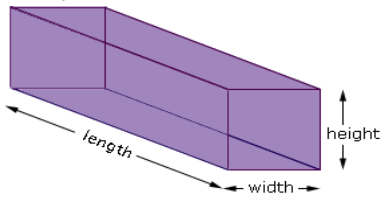
LESSON 6+7 ... Volume of Prisms (V)

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

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

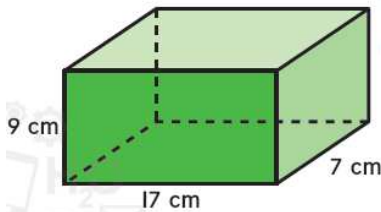
$$V = l \times w \times h$$

$$V = B \times h$$

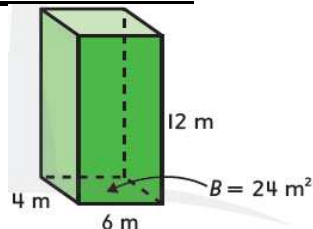


volume (V)
.length (l)
.width (w)
.height (h)

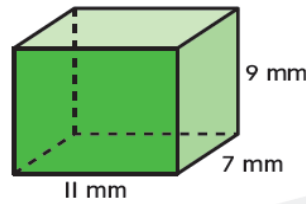
Q1 : Find the volume of Prism :



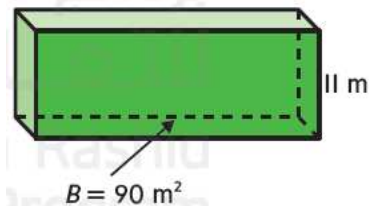
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Q2 : Problem Solving :

- Find the volume of the Frog Queen building in Graz, Austria. The building is 18 meters long, 17 meters tall, and 18 meters wide.
- Rana keeps her recipes in a box with dimensions 18 centimeters, 13 centimeters, and 10 centimeters. What is the volume of the box?

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

- (A) 1,000 m³
- (B) 1,200 m³
- (C) 1,500 m³
- (D) 1,800 m³

