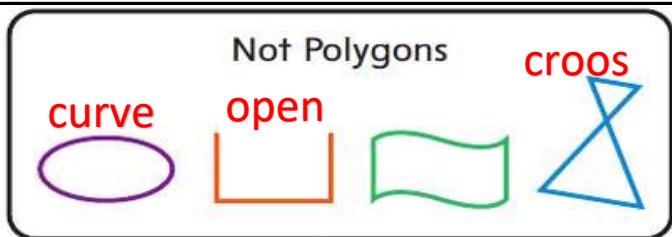
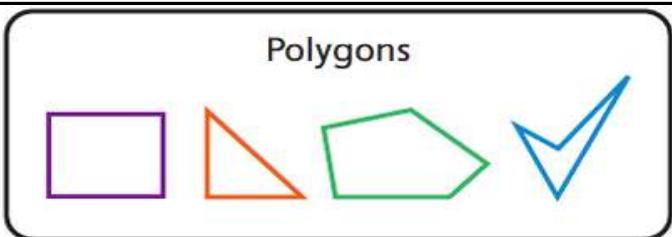


LESSON 1 .. Polygons

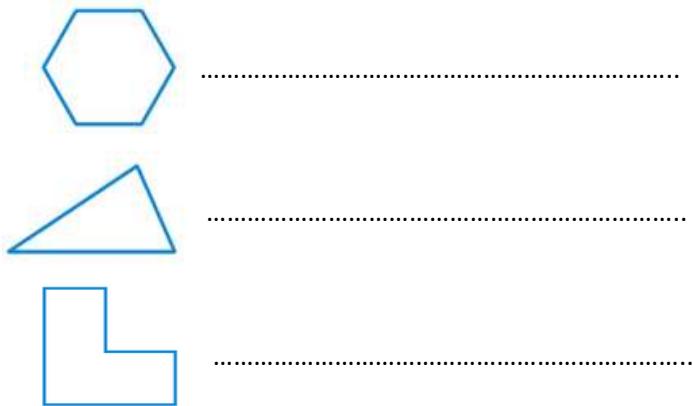
Outcomes: names of polygons + **regular** (congruent side and angle)

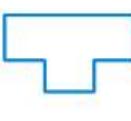


Regular polygons.

- **Congruent sides**
- **Congruent angles**

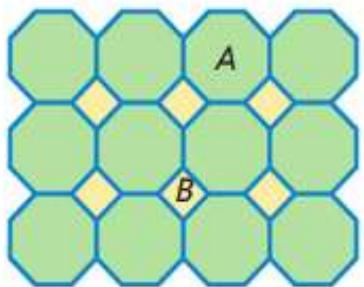
Q1 : Name each polygon and
Determined regular or not regular:



Polygon	Regular	Not Regular	Number of Sides
Triangle			
Quadrilateral			
Pentagon			
Hexagon			
Octagon			

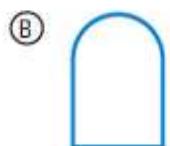
Q2 : problem solving :

1. What polygon make up the design ?
2. Describe polygon B as regular or not regular ?
3. How many sides in polygon A ?



Test Practice

10. Which of the following figures is a polygon?



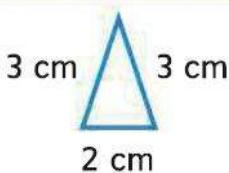
LESSON 3 .. Classify triangle

Outcomes: classify triangle by sides By angles

Classify triangle by sides

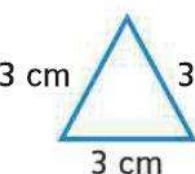
تصنيف المثلثات على
حسب أطوال الأضلاع

Isosceles Triangle



at least two sides
congruent

Equilateral Triangle



all sides congruent

Scalene Triangle

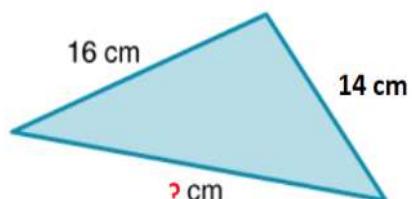


no sides congruent

Choose the correct answer :

1. The figure shows a scalene triangle .. The length = ?

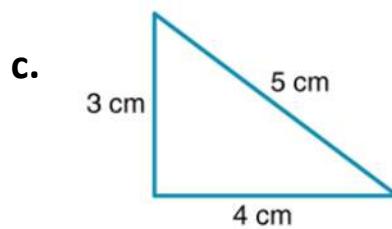
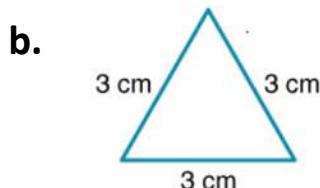
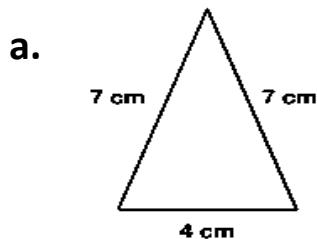
- a. 16 cm
- b. 14 cm
- c. 23 cm



2. Which is an equilateral triangle ?

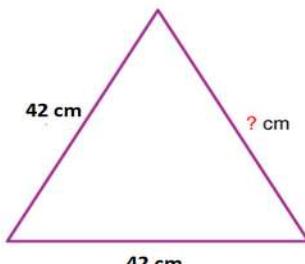
- a. 2m , 2m , 5m
- b. 5m , 5m , 5m
- c. 2m , 5m , 5m

3. Which of following is an isosceles triangle ?



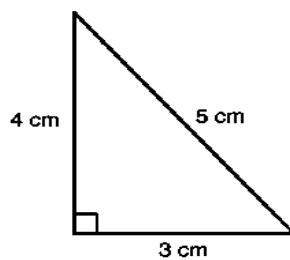
4. The figure shows an equilateral triangle, The length = ?

- a. 40 cm
- b. 42 cm
- c. 45 cm



5. Name of this triangle ?

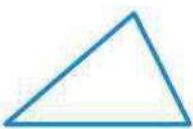
- a. equilateral
- b. isosceles
- c. scalene



Classify triangle by angles

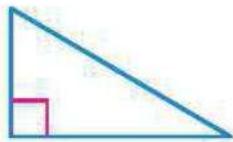
تصنيف المثلثات على
حسب الزوايا

Acute Triangle



3 acute angles

Right Triangle



1 right angle,
2 acute angles

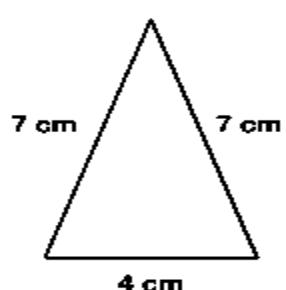
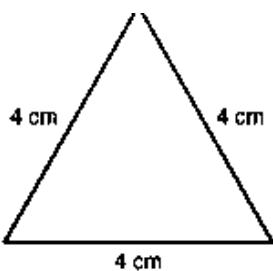
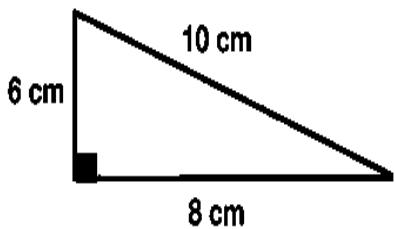
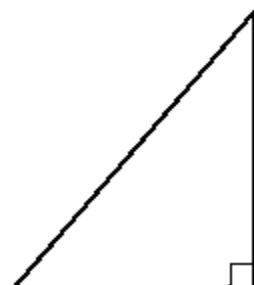
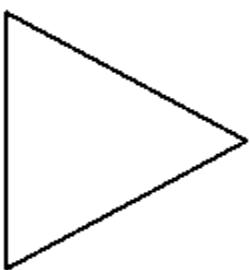
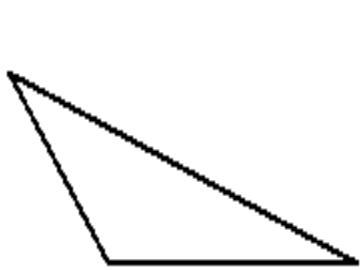
Obtuse Triangle



1 obtuse angle,
2 acute angles

Classify the triangle by angles :

(A acute triangle , right triangle , obtuse triangle)



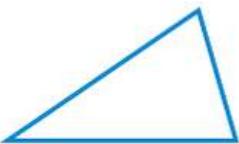
Test Practice

8. Which of the following figures is an obtuse triangle?

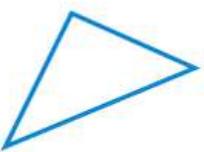
(A)



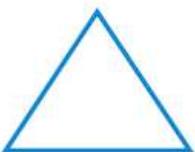
(B)



(C)



(D)

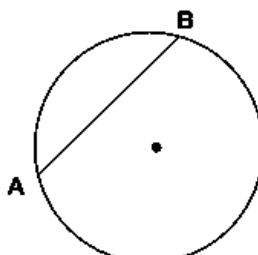
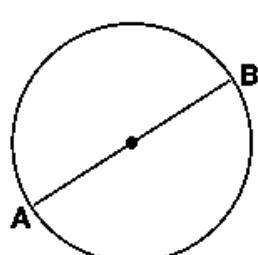
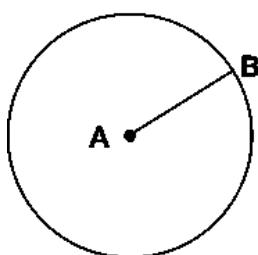
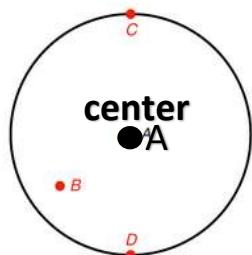


LESSON 4 .. Circles

Outcomes: identify parts of circle

Part of circle

أجزاء الدائرة

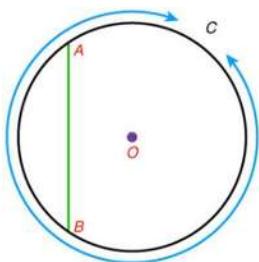


The **point** in the middle of the circle (**center**)

radius (r) the distance from center to circle

diameter (d) distance across a circle through its center

chord the line segment with both endpoints in the circle

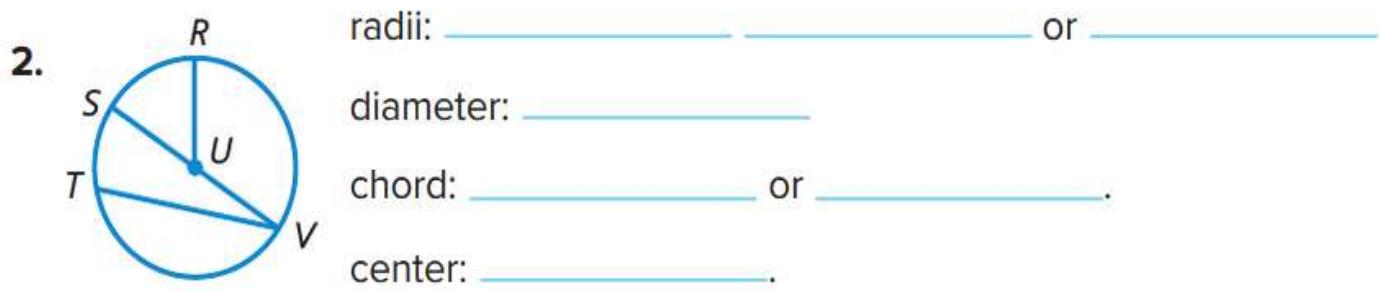
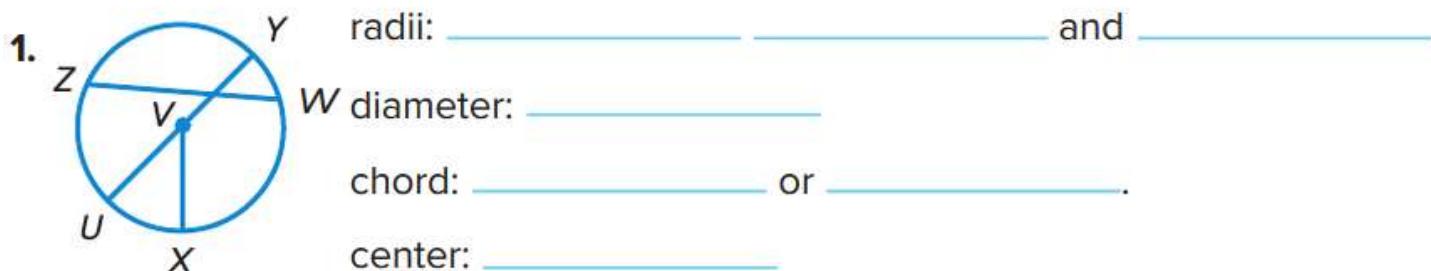


تعريف الدائرة :

A **circle** is the set of all points in a plane that are the same distance from a point called the **center**.

The **distance** around the circle (**circumference**)

For each circle, identify the radii, diameter, chords, and center.



Words

The diameter d of a circle is twice the radius r .

The radius r of a circle is half of its diameter d .

Symbols

$$d = 2r \quad r = \frac{d}{2}$$

Q1 : Choose the correct answer :

1. The diameter of a circle is 10 cm. Find the radius

b. 5 cm b. 10 cm c. 20 cm

2. Find the radius ..

a. 2 cm b. 7 cm c. 3.5 cm

3. Find The diameter ..

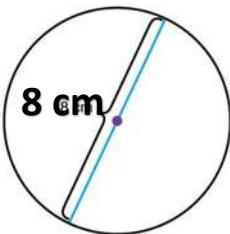
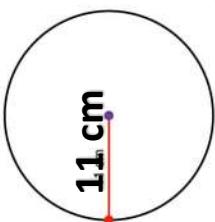
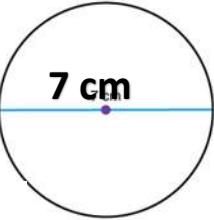
a. 10 m b. 11 cm c. 22 cm

4. If the radius of a circle is 17 m. then the diameter

a. 8.5 m b. 34 cm c. 40 cm

5. Find the radius ..

a. 4 cm b. 16 cm c. 2 cm

**Q2 : Problem Solving**

One of the largest mining dump trucks has tires with a radius of 2 m. What is the diameter of each tire?

The diameter of a tree is 24 cm. What is the radius of the tree?

Test Practice

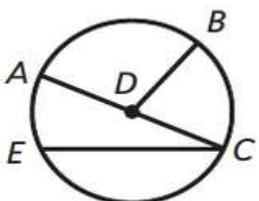
11. Which of the following is NOT a radius of the circle shown?

(A) \overline{DB}

(C) \overline{AD}

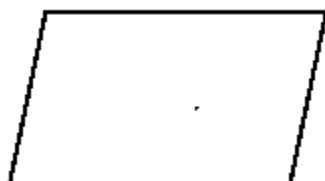
(B) \overline{CE}

(D) \overline{BD}



LESSON 6 .. CLASSIFY Quadrilaterals (4 sides)

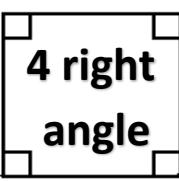
Outcomes: parallel side, congruent sides , right angle

Parallelogram with 2 pairs sides parallel

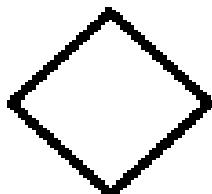
Parallelogram



4 right angle

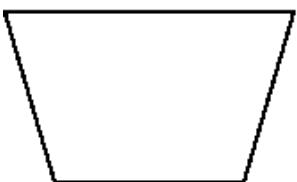


4 right angle



square

rhombus

2 pairs sides Congruent**4 sides Congruent**

trapezoid

1 pairs sides parallel**Q1 : Choose the correct answer :**

6. Quadrilaterals that have all the attributes of rhombus
c. rectangle b. parallelogram c. square

7. Quadrilaterals that have all the attributes of parallelogram(circle 2)
a. rectangle b. rhombus c. trapezoid

8. Quadrilateral has no congruent side and one pair side parallel ..
a. parallelogram b. trapezoid c. square

9. Quadrilaterals that have all the attributes of rectangle (circle 2)
a. Trapezoid b. parallelogram c. rhombus

10. parallelogram has 4 congruent side and 4 right angles ..
b. rectangle b. trapezoid c. square

11. parallelogram has 4 congruent side and no right angles ..
c. rhombus b. square c. trapezoid

Q2 : Match :

parallelogram

Quadrilateral has 4 congruent side , 4 right angle

trapezoid

Quadrilateral has no congruent side, one pair side parallel

square

Quadrilateral has 2 pair congruent side and parallel side

rhombus

Quadrilateral has 2 pair congruent side, 4 right angle

rectangle

Parallelogram has 4 congruent side , no right angle

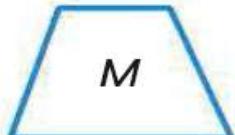
Q3 : Write my name :

1. I have 4 right angle (square , rhombus)
2. I have one pairs of parallel side..... (square , trapezoid)
3. I have 4 congruent side I'm not square, (rhombus , rectangle)

Rectangle is a Parallelogram with right angle (2 , 4)

Test Practice

11. Which statement about the figures shown below is true?



- (A) Figures K and N are rectangles.
- (B) Figures L and N are quadrilaterals.
- (C) Figures K and N are parallelograms.
- (D) Figures M and N are parallelograms.

$$V = L \times w \times h$$



$$V = B \times h$$

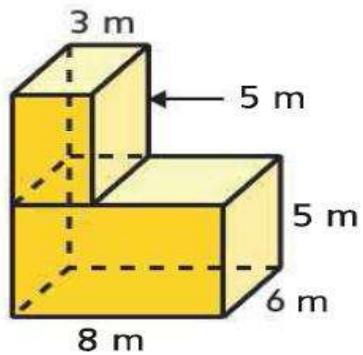
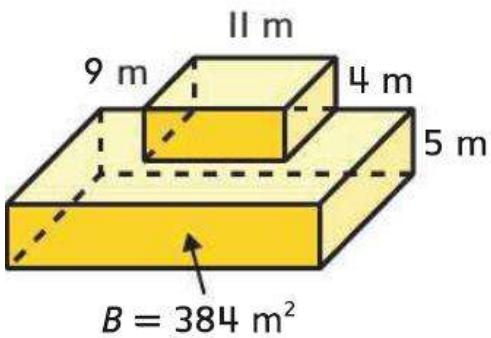
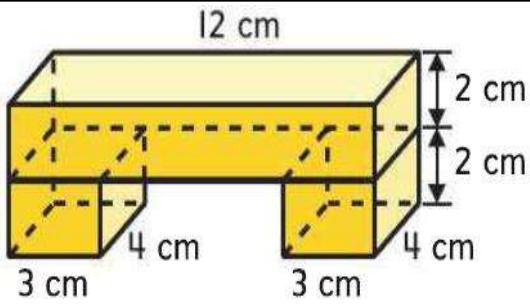
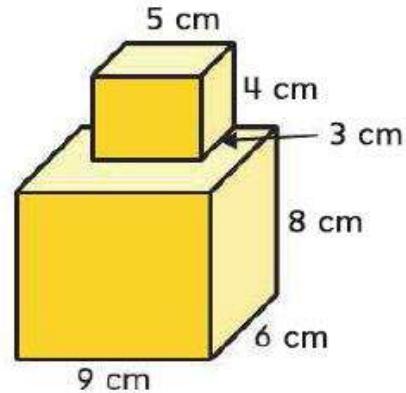
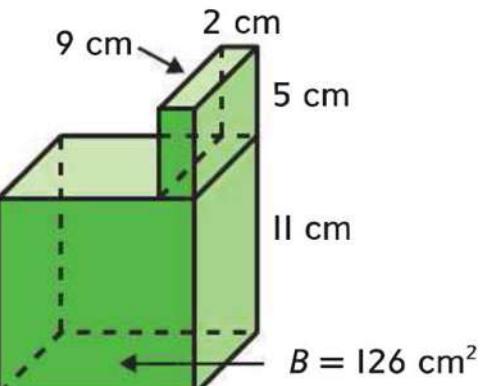
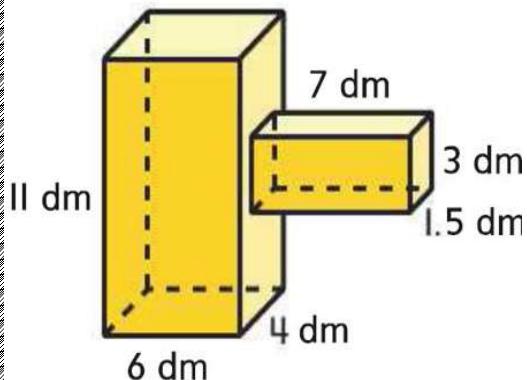
L: length

w: width

h: height

b: base ($l \times w$)

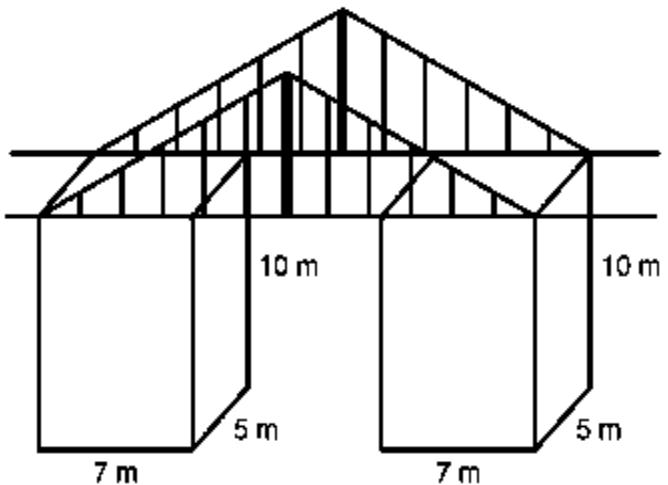
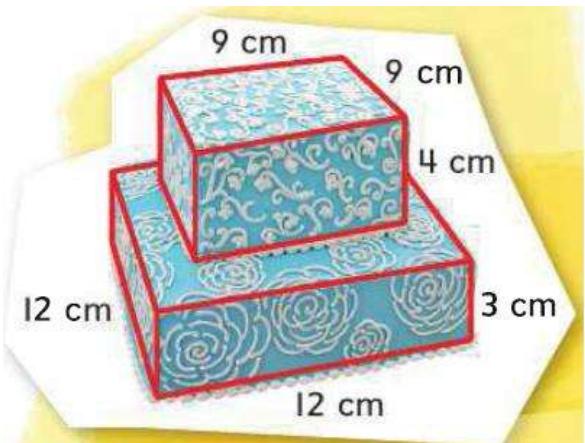
Q1 : Find the volume of composite figures :



Q2:  **Problem Solving**

Sumayya is decorating the cake shown. Find the volume of the cake.

.....
.....
.....
.....



The concrete supports of a bridge are shaped like congruent prisms. The Total volume of the two rectangular prisms is

.....
.....
.....
.....

Test Practice

22. Find the volume of the composite figure.

- (A) $2,700 \text{ cm}^3$ (C) $3,420 \text{ cm}^3$
(B) $2,780 \text{ cm}^3$ (D) $3,660 \text{ cm}^3$

