

Date: _____
Day: _____

11

6

Date: _____
Day: _____

SINDH AND GC UNIVERSITY

سندھ

Entry Test Preparation 2025-26

LECTURE NO: 07

Perimeter And Area

Perimeter:

Sum of all the length of all its sides.

★

★

★

to

Perim

$$P = a + b + c + d \rightarrow \text{Formula}$$

Area:

Area is the measurement of the surface of a shape.

Formula:

$$A = L \times W \rightarrow \text{Formula}$$

L $\rightarrow$ Length

W $\rightarrow$ Width

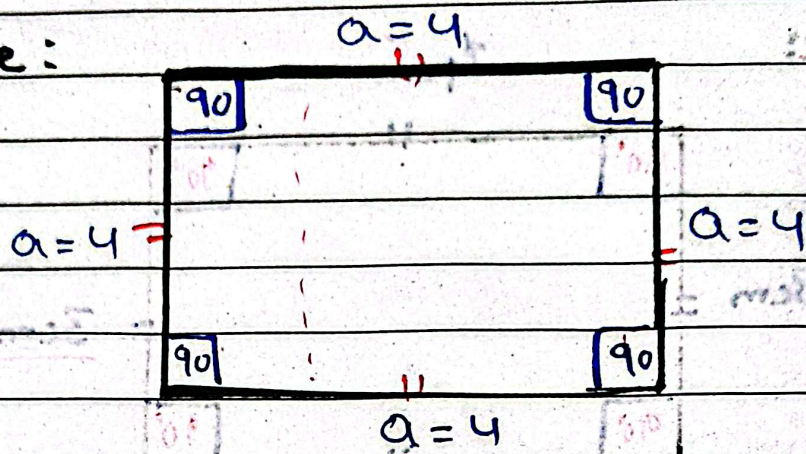
Unit of Area = $m \times m = m^2 \rightarrow \text{Unit}$

Date: _____

Day: _____

(2)

Square:



- * 4 equal sides ✓
- * 4 Right angle (90°) ✓
- * The sum of the inside Angles equal to 360° ✓

Perimeter = ? and Area = ?

$$\text{Perimeter} = a + b + c + d$$
$$= 4 + 4 + 4 + 4 = 16 \text{ m}$$

$$4 \times 4 \Rightarrow 4 \times 4 \Rightarrow 16 \text{ m}$$

$$\text{Area} = L \times W$$

$$(L \times W) \Rightarrow a \times a \Rightarrow a^2$$

$$\Rightarrow 4^2 = 16 \text{ m}^2$$

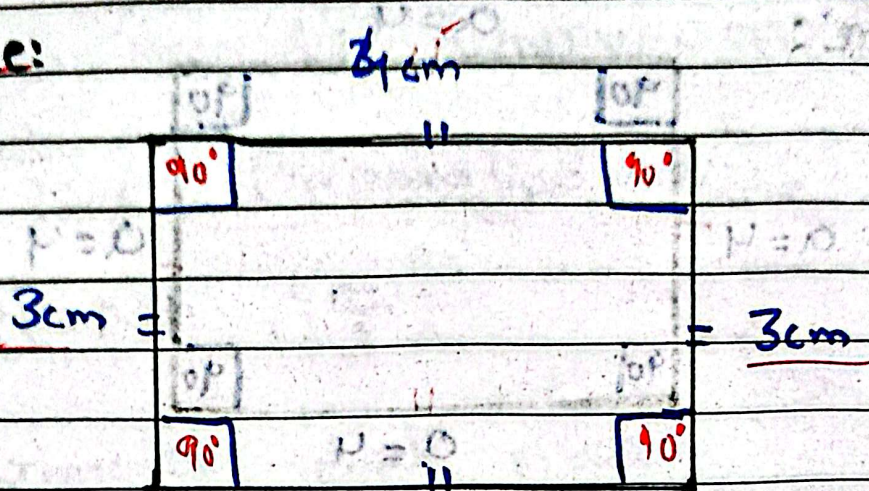
Ans

Date: _____

Day: _____

(3)

Rectangle:



Def:

- * 4 sides Right angle 90°
- * The opposite sides are parallel and equal to length.
- * The sum of the inside angles is equal to 360°

Find Perimeter and Area:

$$P = a + b + c + d$$

$$P = L + b + L + b$$

$$P = 4 + 3 + 4 + 3 = 14 \text{ cm}$$

$$P = 2(L + B) \Rightarrow 2(3 + 4)$$

$$2(7) \Rightarrow 14 \text{ cm}$$

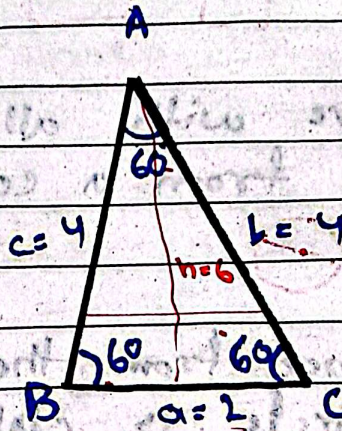
$$Area = L \times B \Rightarrow 3 \times 4 \Rightarrow 12 \text{ m}^2$$

Date: _____
Day: _____

(4)

20?

Triangle:



Def:

- * 3 sides and 3 Angles ✓
- * The sum of Triangle is equal to 180

Perimeter:

Area:

$$P = a + b + c$$

$$A = \frac{1}{2} b \times h$$

$$= 2 + 4 + 4 = 10 \text{ cm}$$

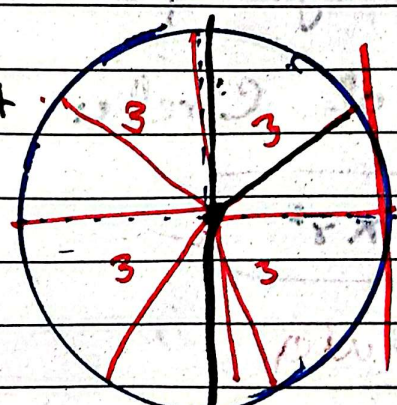
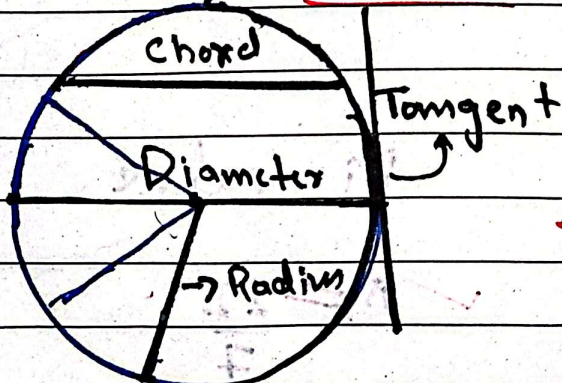
$$A = \frac{1}{2} \times 4 \times 6$$

$$A = 6 \text{ m}^2$$

~~Circle~~

Circle:-

→ Circumference → Perimeter



circle

Date: _____

Day: _____



Circle:

Closed curve with all points the same distance from a center point.



Radius:

The distance from the center to any point on circle is called Radius.

Diameter:

$$D = 2r$$

The diameter is the length of the line through the center that touches two points on the edge of the circle.



Chord:

The line segment joining any two points on the circumference of the circle.

Tangent:

A line that touches the circle at a single point.

Area of Circle:

$$A = \pi r^2$$

Formula

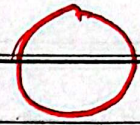
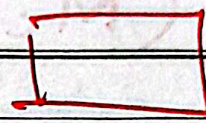
Pi value

$$\pi = \frac{22}{7}$$

$$\pi = 3.14 \dots$$

Date _____

⑥



Circumference =

Boundary of the circle is called Circumference.

★ Circumference = Perimeter of a circle.

Formula:

$$C = 2\pi r \quad \text{or} \quad C = \pi d$$

$$\pi = 3.14$$

$r \rightarrow$ radius

$d \rightarrow$ diameter

$$\therefore d = 2r$$

$\hookrightarrow$ Diameter of a circle.

Note Relation:

Every diameter is a chord. ✓

But every chord is not a diameter.

Date _____

(1)
(M c q s)

1) What is area of circle with radius 3 cm.

(a) 20.78 cm^2

(b) 28.72 cm^2

(c) 28 cm^2

☒ (d) 28.26 cm^2

2) The side of a square is 6 cm. What is perimeter?

(a) 12 cm

(b) 18 cm

☒ (c) 24 cm

(d) 36 cm

~~H.W~~
3) The length of a Rectangle is 12 cm and breath is 8 cm. What is its Area?

(a) 96 cm^2

(b) 20 cm^2

(c) 48 cm^2

(d) 160 cm

4) A circle has diameter 14 cm. Find its Area?

(a) 77 cm^2

(b) 121 cm^2

☒ (c) 154 cm^2

(d) 196 cm^2

5) A square has area 81 cm^2 . What is its perimeter?

☒ (a) 36 cm

(b) 18 cm

(c) 54 cm

(d) 81 cm

Date _____

6) A parallelogram has base 12cm and height = 9cm. Find its Area?

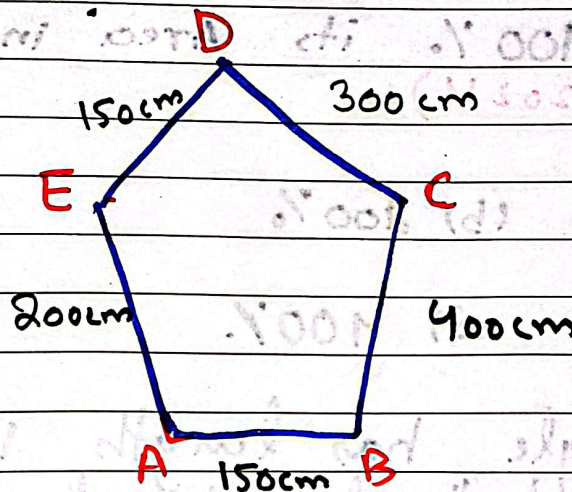
(a) 108 cm^2

(b) 54 cm^2

(c) 90 cm^2

(d) 120 cm^2

7) What is the Perimeter of Pentagon ABCDE? (2022-23)



(a) 1400 cm

(b) 1300 cm

(c) 1250 cm

(d) 1200 cm

8) 1 Arce is equal to _____ Square feet. (2024)

(a) 45434

(b) 34343

✱

(c) 43572

(d) 43560

Arce ek unit of Area hai jo Zameen (land) ko measure krne ke liye use hota hai.

Date _____

Q1

9) The total sum of all sides of a closed surface is called? (2024)

(A) Triangle (b) Perimeter

(c) Rhombus (d) Square

10) If the diameter of a circle is increased by 100% its Area increased by _____? (2024)

(a) 100% (b) 200%

✓ (c) 300% (d) 400%

11) A Rectangle has length 15cm and 10cm. Find the length of diagonal.

(A) 15cm (b) ~~18cm~~ $13\sqrt{5}$ cm

(c) 20cm (d) ~~25cm~~ $5\sqrt{13}$ cm