ODM EDUCATIONAL GROUP
Changing your Tomorrow

MONTH : NOVEMBER

SESSION : 18

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 15

CHAPTER NAME : GEOMETRY

SUB-TOPIC : TRIANGLES , TYPES OF TRIANGLES AND AREA OF TRIANGLES .

EX-15 B

Website: www.odmegroup.org
Email: info@odmps.org
Toll Free: 1800 120 2316
Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024

ODM EDUCATIONAL GROUP
Changing your Tomorrow

LEARNING OBJECTIVE :

Enable learners :

- **To identify triangles , types of triangles**
- **To find the area of the triangles .**

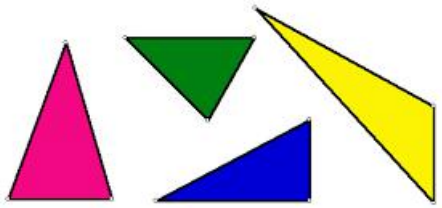
TRIANGLES

A closed shape having 3 sides is a triangle.

Types of triangles

According to sides

- Equilateral
- Isosceles
- Scalene

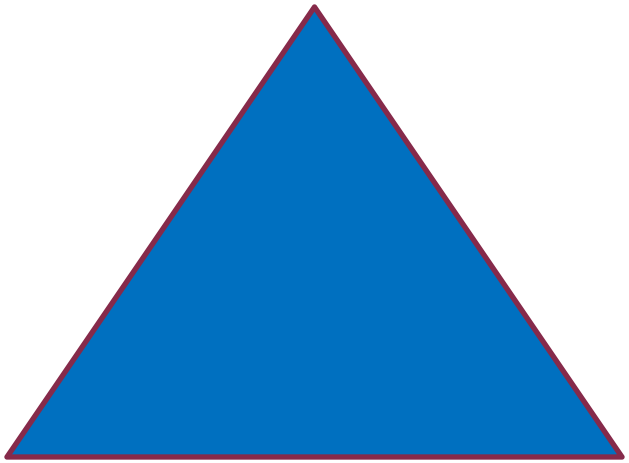


THESE SHAPES ARE TRIANGLES

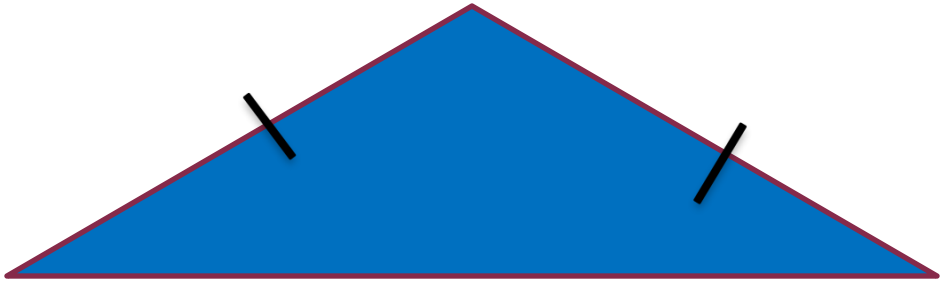
Types of triangles

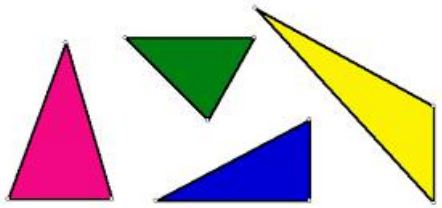
ODM EDUCATIONAL GROUP
Changing your Tomorrow

Equilateral: A triangle whose all sides are equal.



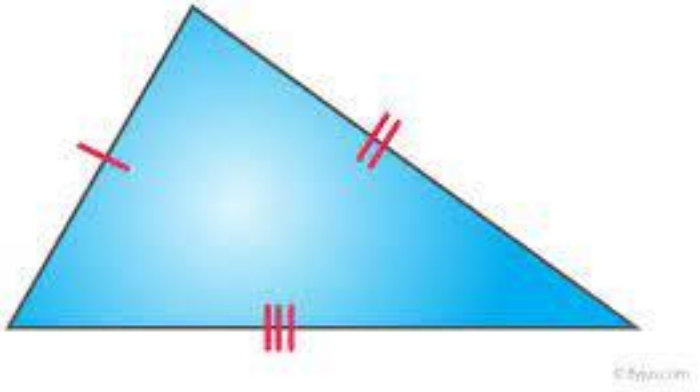
Isosceles: A triangle whose any 2 sides are equal.





THESE SHAPES ARE TRIANGLES

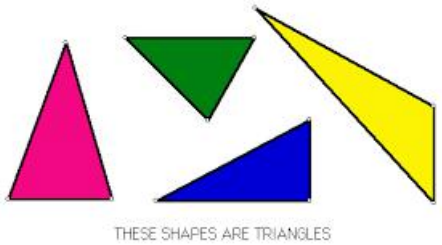
Scalene : a triangle whose non of the side are equal.



Types of triangles

According to angles

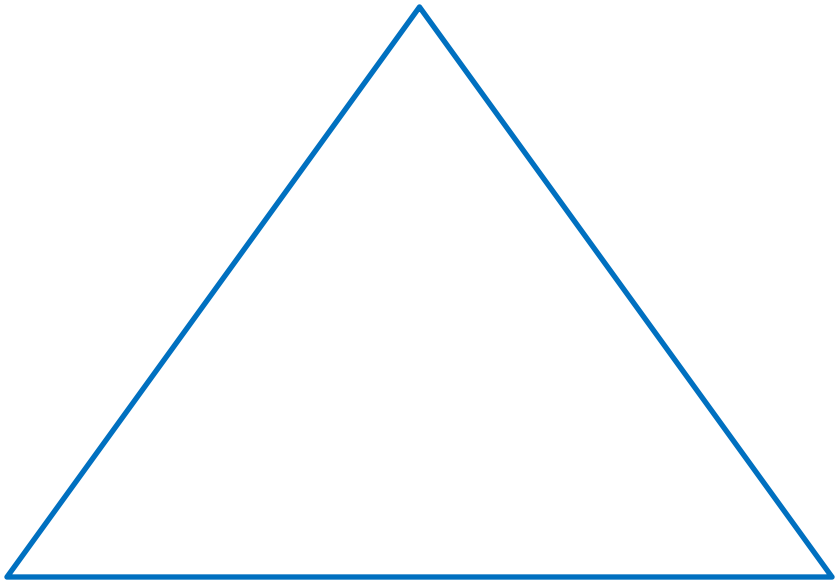
- Acute
- Obtuse
- Right

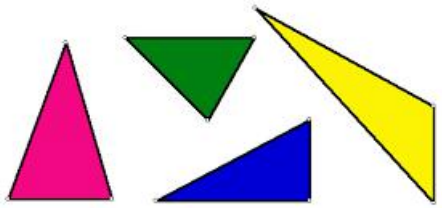


Types of triangles

ODM EDUCATIONAL GROUP
Changing your Tomorrow

Acute : all angles are less than 90°



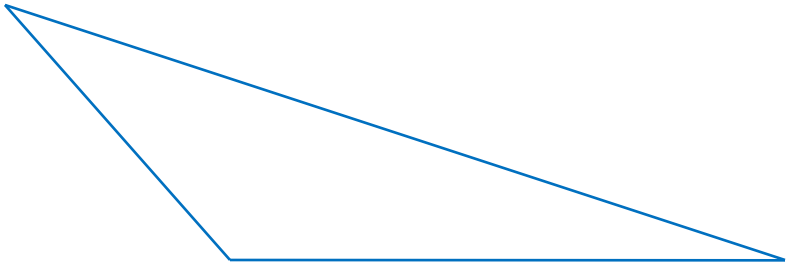


THESE SHAPES ARE TRIANGLES

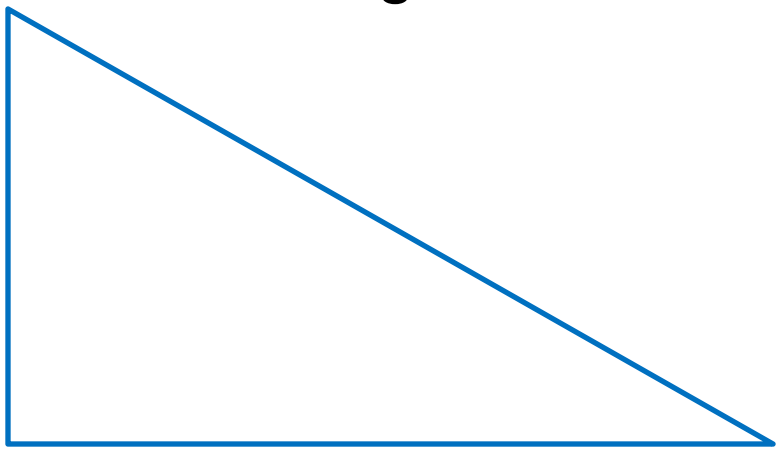
Types of triangles

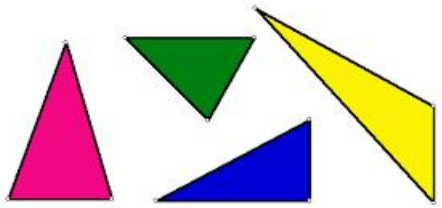
ODM EDUCATIONAL GROUP
Changing your Tomorrow

Obtuse : one of the angles should be more than 90°.



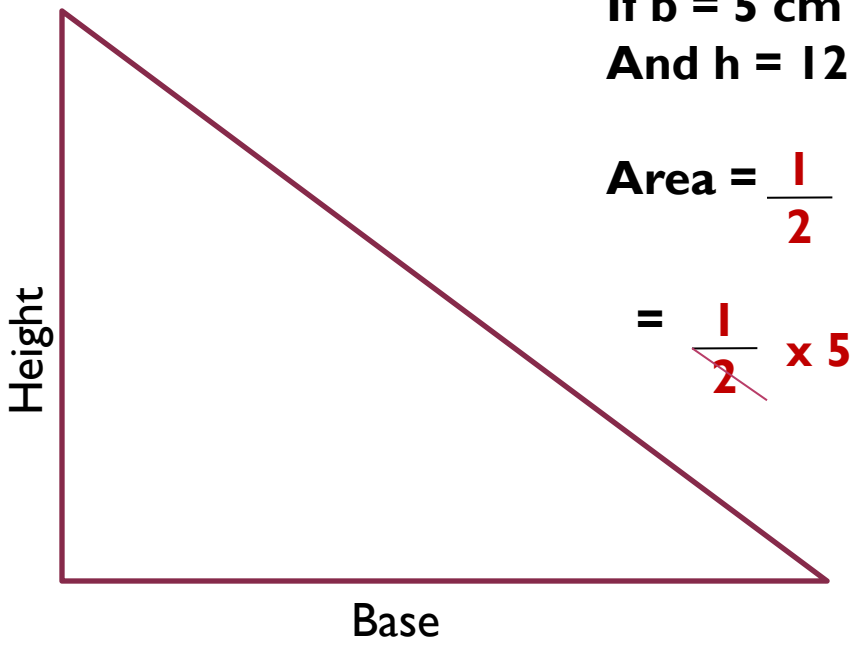
Right: one of the angles should be equal to 90°.





Area of triangles

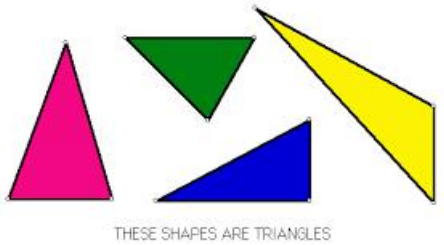
The area of triangle = $\frac{1}{2}$ x base x height



If b = 5 cm
And h = 12 cm

Area = $\frac{1}{2}$ x base x height

= $\frac{1}{\cancel{2}}$ x 5 x $\cancel{12}^{6}$ = 30 sq.cm

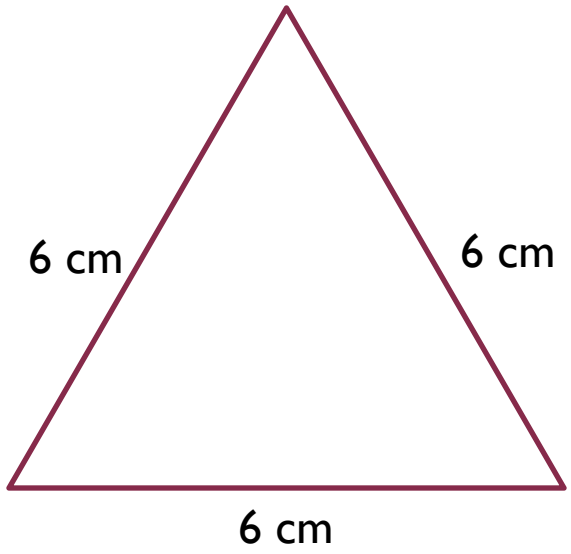


EXERCISE- 15B

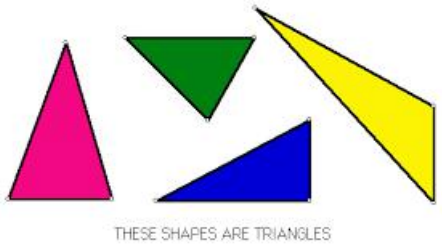
ODM EDUCATIONAL GROUP
Changing your Tomorrow

1. Classify the following triangles.

a.



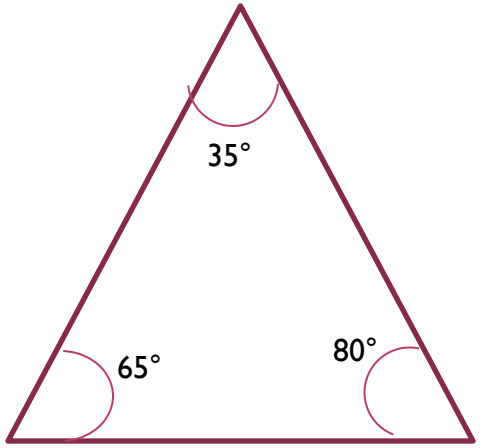
Equilateral triangles



EXERCISE- 15B

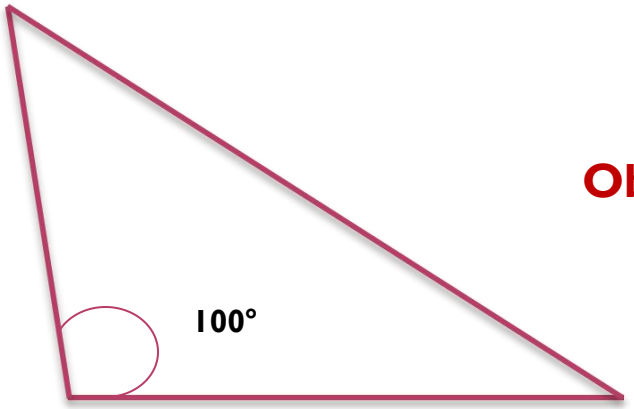
ODM EDUCATIONAL GROUP
Changing your Tomorrow

b.

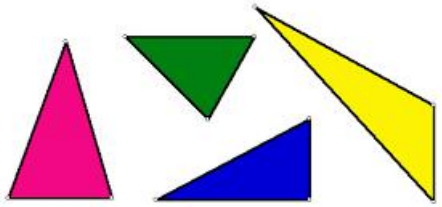


Acute triangle

c.



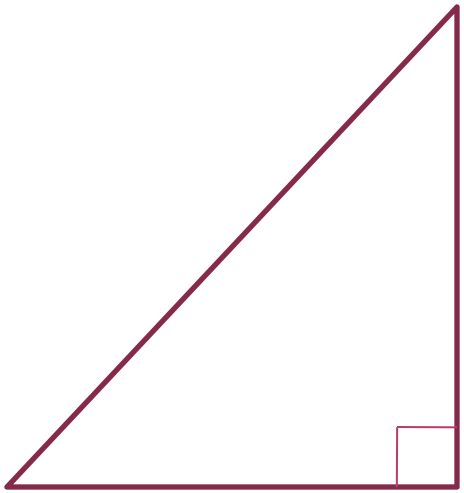
Obtuse triangle



THESE SHAPES ARE TRIANGLES

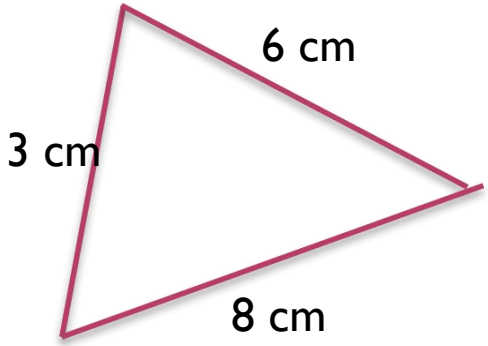
EXERCISE- 15B

d.

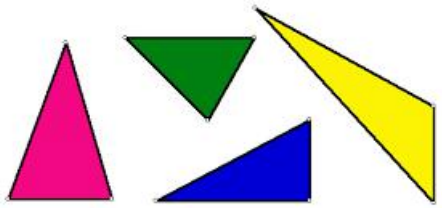


Right triangle

e.



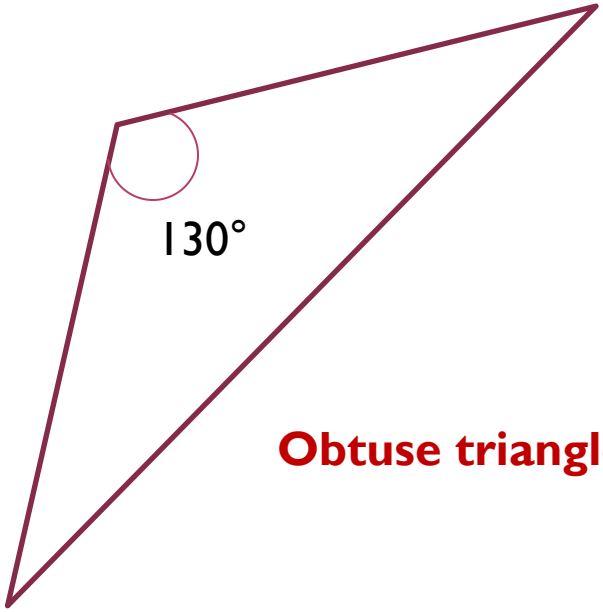
Scalene triangle.



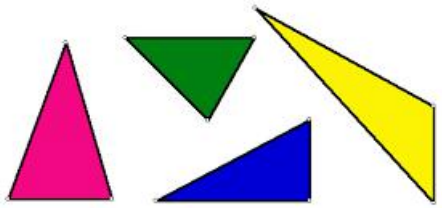
THESE SHAPES ARE TRIANGLES

EXERCISE- 15B

f.



Obtuse triangle



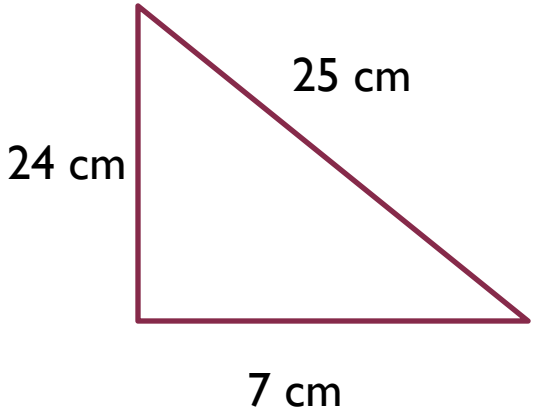
EXERCISE- 15B

ODM EDUCATIONAL GROUP
Changing your Tomorrow

2. Find the area.

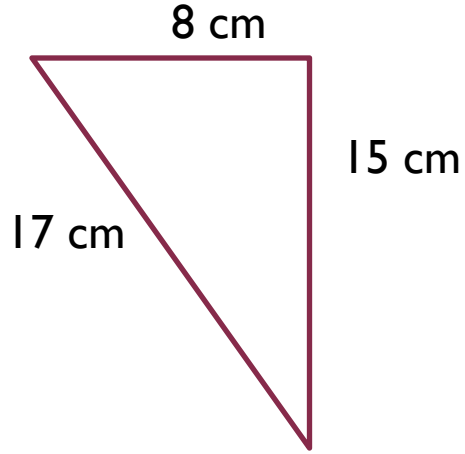
a. Area = $\frac{1}{2}$ x base x height

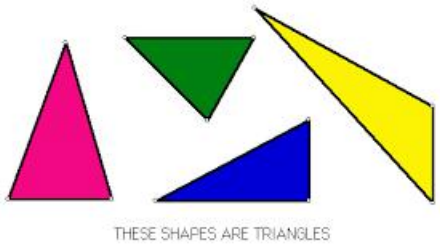
= $\frac{1}{2}$ X 7 x 24 = 84 sq.cm



b. Area = $\frac{1}{2}$ x base x height

= $\frac{1}{2}$ X 8 x 15 = 60 sq.cm





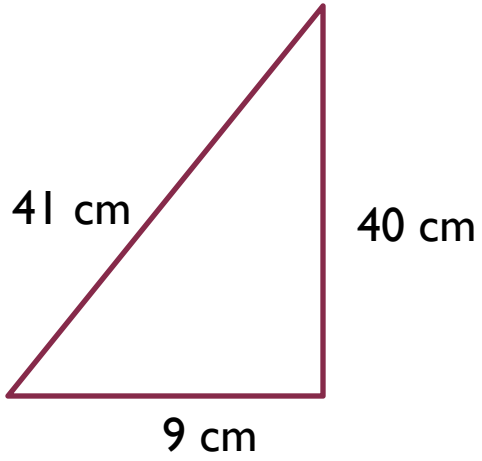
THESE SHAPES ARE TRIANGLES

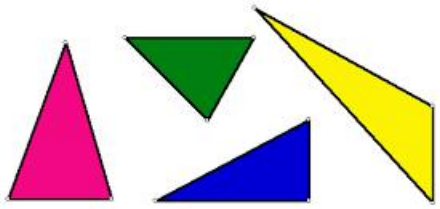
EXERCISE- 15B

ODM EDUCATIONAL GROUP
Changing your Tomorrow

c. Area = $\frac{1}{2}$ x base x height

= $\frac{1}{2}$ X 9 x 40 = 180 sq.cm





THESE SHAPES ARE TRIANGLES

ODM EDUCATIONAL GROUP
Changing your Tomorrow

Students are able:

- To identify triangles , types of triangles
- To find the area of the triangles .

ODM EDUCATIONAL GROUP
Changing your Tomorrow

THANKING YOU

ODM EDUCATIONAL GROUP