SUBJECT-MATHEMATICS

CHAPTER-6 (LINES AND ANGLES)

WORKSHEET (BASIC)

TIME- 45 Min MAX. MARKS: 20

Choose the correct option: $(2\times 1=2)$

1. If one angle of a triangle is equal to the sum of the other two angles, then the triangle is

(a) an isosceles triangle (b) an obtuse triangle

(c) an equilateral triangle (c) a right triangle

2. An exterior angle is 105° and its two interior opposite angles are equal. Each of these equal angles is

(a) $37\frac{1}{2}^\circ$ (b) $52\frac{1}{2}^\circ$ (c) $72\frac{1}{2}^\circ$ (b) 75°

Fill in the blanks: $(2\times 1=2)$

1. An angle is equal to two third of its compliment then the angle is equal to _____

2. If length of each side of an equilateral triangle is doubled then degree measure of vertical angle will be _____

Answer the following: $(2\times 1=2)$

1.The angles of a triangle are arranged in ascending order of magnitude.If the difference between two consecutive angles is 10°, find all the three angles.

2.Angles of a triangle are in the ratio 2:4:3.Find the smallest angle of the triangle.

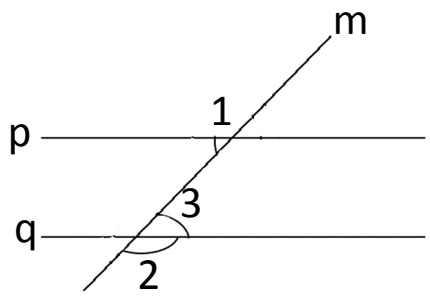
SHORT ANSWER TYPE-I $(2\times 2=4)$

1.If two times the measure of one angle is three times the measure of other which is its compliment,find the angles.

2.ABC is a right angled triangle in which ∠A= 90° and AB=AC,find the value of ∠B and ∠C.

SHORT ANSWER TYPE-II $(2\times 3=6)$

1.In the given figure,∠1 = 61° and ∠2 = 118°. Is p || q? Give reasons.



2. In ΔABC, ∠A−∠B=15°, ∠B−∠C=30°, find ∠A, ∠B &∠C.

LONG ANSWER TYPE: ($1\times 4 = 4$)

1. Two lines AB and CD intersect at O. If ∠AOC+∠COB+∠BOD=270°, find the measures of ∠AOC, ∠COB, ∠BOD&∠DOA