



Princess Sumaya جامعة
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PHYSICS LAB

(20147)

Experiment No. 5

Newton's Second Law Acceleration due to gravity

Name: Reg.No. ()

Partner name:..... Class ()

Date / / 20 Mark ()

Acceleration due to gravity (g)

1- Objectives

2- Apparatus

3- Data

a) Complete the following table:

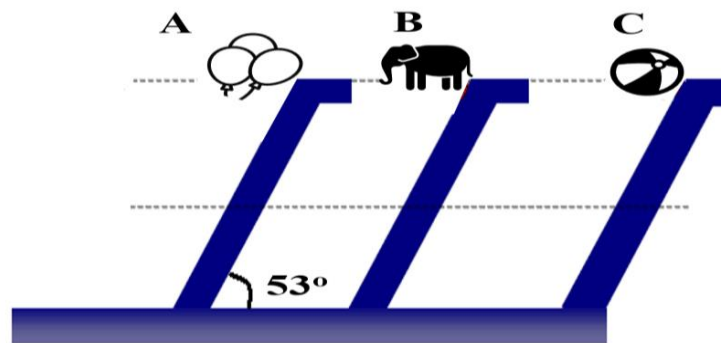
d = _____ cm, y = _____ cm, x = _____ cm, h = y-x = _____ cm

No.	P ₁	P ₂	P ₃	S ₁	S ₂	t ₁	t ₂	a	g
1									
2									
3									
Avg.=									

b) Calculate the error in the average of g.

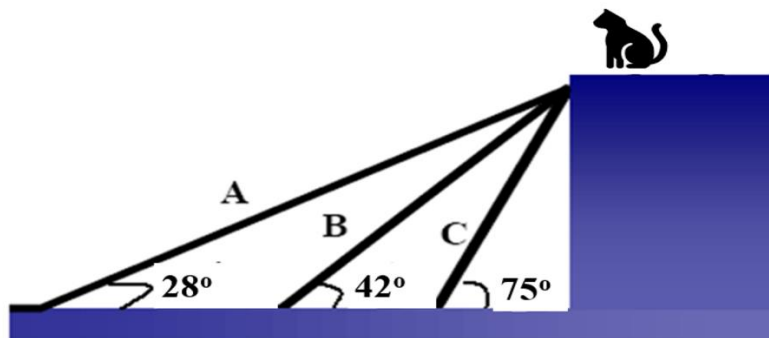
4. Questions:

1. The figure below shows three objects of different masses. They are released from rest at the same time from the same level and slide down the ground, neglect air resistance.



a) Which object will reach the ground first?

- 1) Object A
 - 2) Object B
 - 3) Object C
 - 4) All will reach at the same time.
2. The three tracks A, B, and C shown in the figure below are frictionless. The animal at rest.



a) On which track the animal will slides faster?

- 1) Track A
- 2) Track B
- 3) Track C
- 4) Will slide in all of them with the same speed.