

CANDIDATE'S RECEIPT

INSTRUCTIONS TO CANDIDATE:

1. Fill in all the information requested clearly in capital letters.

TEST CODE:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 8 | 0 | 3 | 2 |
|---|---|---|---|---|---|---|---|

SUBJECT: _____ PHYSICS – Paper 032

PROFICIENCY: _____ GENERAL _____

REGISTRATION NUMBER:

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|

FULL NAME: _____
(BLOCK LETTERS)

Signature: _____

Date: _____

2. Ensure that this slip is detached by the Supervisor or Invigilator and given to you when you hand in this booklet.
3. Keep it in a safe place until you have received your results.

INSTRUCTION TO SUPERVISOR/INVIGILATOR:

Sign the declaration below, detach this slip and hand it to the candidate as his/her receipt for this booklet collected by you.

I hereby acknowledge receipt of the candidate's booklet for the examination stated above.

Signature: _____
Supervisor/Invigilator

Date: _____



0123803216

101

CARIBBEAN EXAMINATIONS COUNCIL

**CARIBBEAN SECONDARY EDUCATION CERTIFICATE®
EXAMINATION**

07 MAY 2015 (p.m.)



M1501238032

FILL IN ALL THE INFORMATION REQUESTED CLEARLY IN CAPITAL LETTERS.

TEST CODE:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 8 | 0 | 3 | 2 |
|---|---|---|---|---|---|---|---|

SUBJECT _____ PHYSICS – Paper 032

PROFICIENCY _____ GENERAL _____

REGISTRATION NUMBER

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|
| SCHOOL/CENTRE NUMBER | | | | | | | | | | | | |
| <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| |
|-----------------------|
| NAME OF SCHOOL/CENTRE |
|-----------------------|

| |
|---|
| CANDIDATE'S FULL NAME (FIRST, MIDDLE, LAST) |
|---|

DATE OF BIRTH

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|

SIGNATURE _____



0123803201

DO NOT
WRITE ON
THIS PAGE

DO NOT
WRITE ON
THIS PAGE



0123803202



0123803215

(d) The graph shows that the balance had a zero error. How can you tell?

.....

(1 mark)

(e) What is the value of the zero error?

.....

(1 mark)

(f) Use the gradient obtained from 2 (c) to find the average mass of one coin.

(1 mark)

Total 17 marks

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

01238032/F 2015



0123803210

GO ON TO THE NEXT PAGE

2. A Physics teacher asked her students to find the average mass of a coin, given 8 similar coins and a beam balance. The procedure they used was to measure the mass, in grams, of one coin, then add each coin and find the new total mass.

(a) State TWO likely sources of error and ONE precaution.

Error 1:

.....

Error 2:

.....

Precaution:

.....

.....

.....

(3 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

01238032/F 2015



0123803207

GO ON TO THE NEXT PAGE

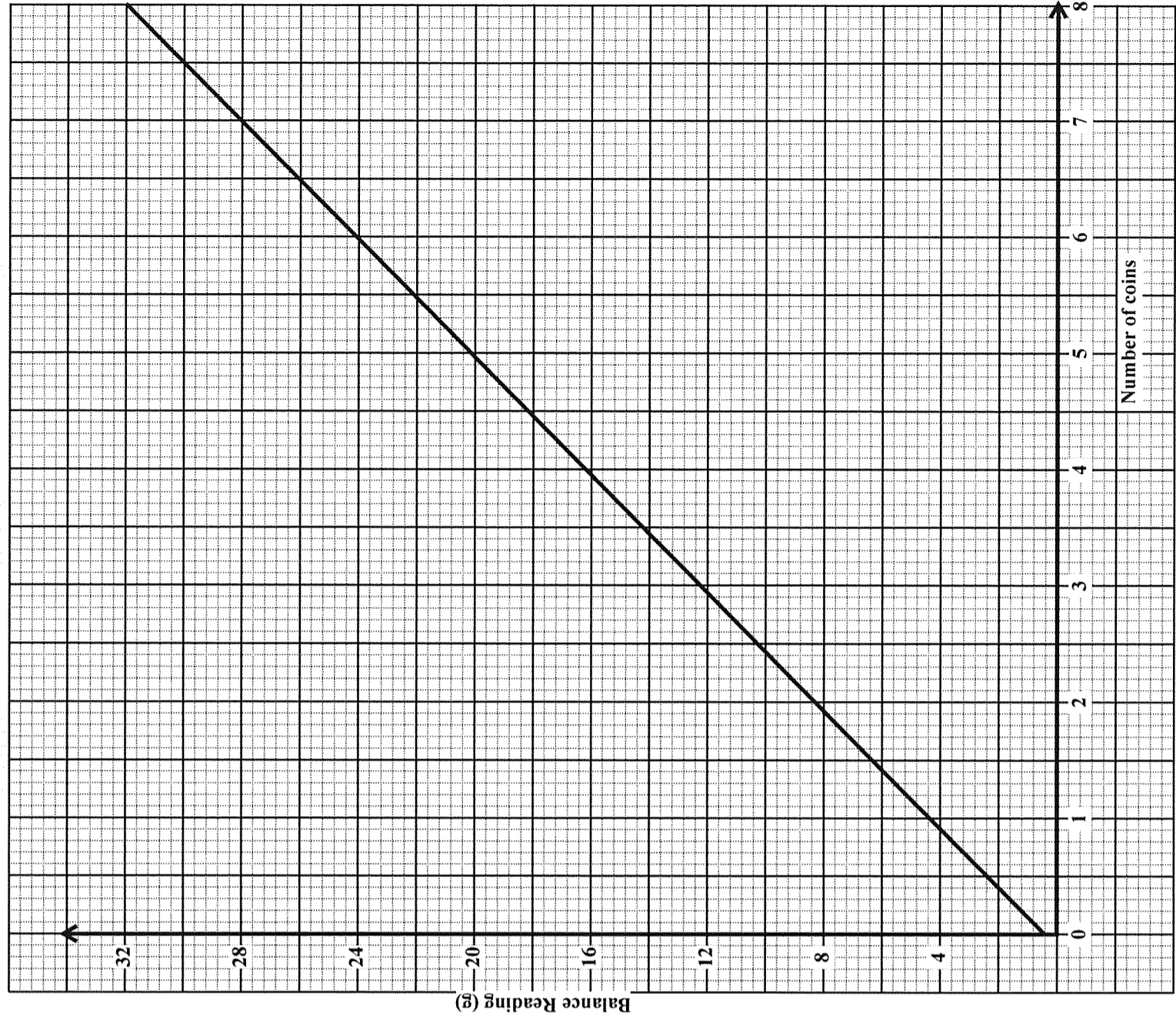
(b) The students plotted a graph of their results which is shown on page 7. Use the graph to construct a table of results for at least six entries.

(7 marks)

(c) Use the point (1.5, 6.4) and one other from the graph to find the gradient of the line.

-
-
-
-
-
-
-

(4 marks)



DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

