

# FOCUS A365

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## ATIKA SCHOOL . COM

Form 1 | Term 3 | 121 A - Mathematics | 12-Okt-16 | Weekly Ambush

ADM..... NAME ..... CLASS ..... TIME: 1 hr

### INSTRUCTIONS :

1. Write your **name, class and ADM number** in the spaces provided above.
2. Answer all the questions provided in this **question paper**
3. All workings must be **clearly shown**
4. Any acts of **cheating** will render your examinations nullified
5. Sign and write the date of the examination in the spaces provided below
6. This exam has **four** printed pages. Please confirm.

Invigilator's Name	Date Issued	Date Returned	Date Revised	Student's signature
TEACHER'S COMMENT				

### For examiner's use only

Question/Section/Page	1	2	3	4	Total
Max. Score					<b>32</b>
Candidate's Score					

### Questions

1. Without using a calculator, evaluate the following equations

a. 
$$\frac{-12 \div (-3) \times 4 - (-20)}{-6 \times 6 \div 3 + (-6)}$$

[3mks]

b. 
$$\frac{-8+(-5)\times(-8)-(-6)}{-3+(-8)\div 2\times 4}$$

[3mks]

2. A farmer distributed his bags of cabbage as follows:

A certain hospital received a quarter of the total number of bags. A nearby school received half of the remainder. A green grocer received a third of what the school received. What remained were six bags more than what the greengrocer received. How many bags of cabbages did the farmer have? [3mks]

3. Reduce the following fractions to their lowest terms

a.  $\frac{128}{224}$

[1mk]

b.  $\frac{600}{1080}$

[1mk]

4. The ratio of the cost of commodity X to that of commodity Y is 2:3 and the ratio of the cost of commodity Y to that of commodity Z is 6:1. If the total cost of the three commodities is Sh. 2200, express the cost of commodity Z as a percentage of commodity Y. **[3mks]**

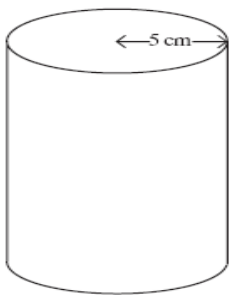
5. A Kenyan businessman bought a car from Zimbabwe for 12,000 Zimbabwean Dollars. He then sold it in Kenya at a profit of 15%. Given that 1 Zimbabwean dollar is equal to Ksh 9.8489. Calculate his profit in Kenya Shillings. **[3mks]**

6. Express  $1.\dot{5}2\dot{3}$  as a fraction **[3mks]**

7. Four men can build a stone wall 32M long in 12 days. What length of wall can eight men working at the same rate build in 8 days? **[3mks]**

8. A two digit number is such that the sum of its digits is ten. If the digits are interchanged the value of the number increases by seventy two. Find the number **[4mks]**

9. A cylinder has a radius of 5 cm.  
a. Calculate the circumference of a circular end of the cylinder. **[2 marks]**



- b. The cylinder has a volume of 250 cm<sup>3</sup>. Calculate the height of the cylinder. **[3 marks]**