

FOCUS A365

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Form 1 | Term 2 | 121 A - Mathematics | 20-Jul-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

For examiner's use only

Question/Section/Page	1	2	3	4	Total
Max. Score	4	10	9	10	33
Candidate's Score					

Questions

1. Write the following expressions as a single fraction

a. $\frac{3y-5}{2} + \frac{2y-7}{3}$ (2mks)

b. $\frac{x-1}{2} + \frac{x+2}{4} - \frac{x}{5}$ (2mks)

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2. Factorize and simplify the following expressions;

a. $\frac{x^2-4ax-4a+x}{(x+1)(4a^2-ax)}$ (3mks)

b. $x^2 + xy + 2x + 2y$ (2mks)

c. $3ab + 2b + 3ca + 2c$ (2mks)

3. Evaluate:

a. $\frac{1}{2}$ of $\frac{1}{4} \div \frac{1}{8} + \frac{3}{4} - \frac{1}{8}$ (3mks)

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$$b. \frac{\frac{1}{2} \text{ of } 6\left(\frac{3}{2} \times \frac{6}{3} \div 4\right)}{\frac{3}{4} \text{ of } 2\frac{1}{2} + \frac{1}{2}}$$

(3mks)

$$c. \frac{672 \times 480}{96}$$

(3mks)

$$d. 7.5 \times 3.5 \div 3.6 + 8.6$$

(3mks)

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4. A two digit number is such that the sum of the ones and the tens digit is ten. If the digits are reversed, the new number formed exceeds the original number by 54. Find the number; (3mks)

5. What must be subtracted from the product of $5\frac{1}{2}$ and $3\frac{1}{3}$ to get $18\frac{1}{2}$ (2mks)

6. (i) The G.C.D of two numbers is 12 and their L.C.M is 240. If one of the numbers is 60, find the other number (2mks)

(ii) Find the Highest Common Factor of 84, 252 and 408 (3mks)