FOCUS A365

ATIKASCHOOL.COM

Form 1	Term 3	121 A - Mathematics	27-Sep-16	Weekly Ambush

ADM.............. NAME .... CLASS .... TIME: 1 hr #13

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					
Candidate's Score					

Questions

1. Find the greatest number which when divided by 181 and 236 leave a remainder of 5 in each case **(3mks)**

2. Fill in the blank spaces below **(2mks)**

   a) _____ - (-2) = -1

   b) (+1) – (+) - _____ = -5

3. Nyambura is ten years older than her brother Omollo. Find an expression for:

   a) The sum of their ages   **(1 mk)**

   b) The sum of their ages in eight years' time   **(2 mks)**

   c) The product of their ages five years ago   **(2 mks)**

4. Simplify:

   a) $\frac{3x}{2} - \frac{5y}{6} + \frac{y}{4}$ **(2mks)**

   b) $2a - 5b = 11$ **(3mks)**

   $3a + 2b = 7$

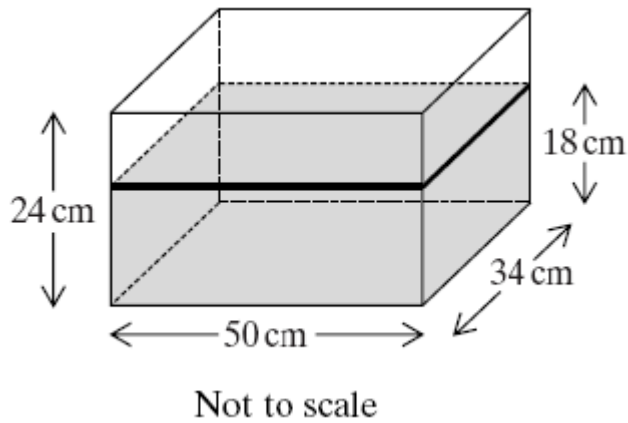   **c)** $2y - x = 8$ **(3mks)**

   $1 + y = 2x$

   d) $\frac{1}{2}x + \frac{1}{3}y = 4$ **(3mks)**

   $x - \frac{1}{4}y = -5$

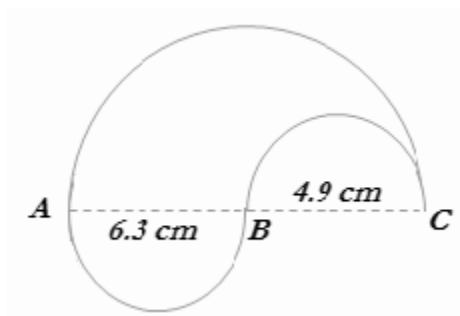5. A water tank is 50cm long, 34cm wide and 24cm high. It contains water to a depth of 18 cm.

Not to scale

A cylinder of height 12 cm is placed in the tank and fully submerged. The water level raises by 4.5 cm. Calculate the radius of the cylinder. **[5 marks]**

6. Fifteen tractors each working 8 hrs a day take eight days to plough a piece of land. How long would it take 24 tractors each working 10 hrs a day to plough the same piece of land?**[4 mks]**

7. Find the perimeter of the given below ($\pi = \frac{22}{7}$) **[5 marks]**

8. Find the area of the shaded figure below   ($\pi = \frac{22}{7}$) **[3 marks]**