

FOCUS A365

Another Manyamfranchise.Com Evaluation Test

Atikaschool.com

Form 1 | Term 2 | 121 A - Mathematics | 05-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

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					36
Candidate's Score					

Questions

1. Find the place value and total values of the underlined digits in the following numbers.

(3mks)

Numbers	Place value	Total value
697, <u>3</u> 48,015		
8,493, <u>6</u> 27,501		
<u>7</u> 48.0532		

2. a. Write 30 and 462 as product of factor form. **(2 mks)**

b. Hence work out 30×462 giving your answer as a product of prime factors in power form. **(1 mk)**

3. Three tanks have a capacity of 20 litres, 24 litres and 32 litres respectively. What is the greatest volume of a container that can be used to empty the tanks completely when full without any remainder? **(2 mks)**

4. Work out the following **(3 mks)**

$$\frac{36 \div \frac{1}{2} \text{ of } (7 + 5) - 2 \times 4}{24 \div 6 \times 2 - 6}$$

5. Simplify completely

a. $\frac{R^2-4R}{R-4}$ (2 mks)

b. $\frac{3X^2+X^3}{3X+X^2}$ (2 mks)

6. 20 men working 10 hours a day take 10 days to complete a job. How long would 30 men working 8 hours per day take to complete the same job? (3 mks)

7. Three children; Mucheru, Kimutai and Moraa shared 80 oranges. Mucheru received $\frac{1}{4}$ of the oranges while Kimutai got $\frac{1}{3}$ of the remainder. All the rest were taken by Moraa. How many oranges did Moraa get? (3 mks)

8. Simplify (3 mks)

$$\frac{0.128 \times 0.19 \times 0.9}{0.0076 \times 0.45 \times 0.16}$$

9. Use mathematical tables to evaluate:

a. $\sqrt{7.613}$ **(1 mk)**

b. $\sqrt{387654}$ **(2 mks)**

c. $\sqrt{0.009363}$ **(2 mks)**

10. An airliner takes off from Nairobi airport on Thursday at 10.15 p.m. It reached Mumbai on Friday at 8.30a.m. How long did the flight take? **(2 mks)**

11. Solve the following equations

a. $4y - 8 = y + 7$ **(2 mks)**

b. $\frac{x+2}{4} - \frac{x-4}{2} = \frac{x-3}{3}$ **(3 mks)**