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Form 1 | Term 2 | 121 A - Mathematics | 28-Mei-16 | Weekly Ambush

ADM..... NAME ..... CLASS .....

1. Manyinsa works 48 hours in one week which includes 8 hours overtime. Find the ratio of manyinsa's
- a. Normal weekly working time to the hours he works that include overtime to the simplest form (1marks)
  
  
  
  
  
  
  
  
  
  
  - b. Total time he works in a week to the time when he is not working to the simplest form (2marks)

2. Arrange these ratios in the ascending order of their magnitude (2marks)

3:4, 2:5, 1:2, 10:12, 14:18, 2:3

3. Solve the following equations

a.  $\frac{x}{0.1} + \frac{x}{0.2} = 45$  (2marks)

b.  $\frac{2x-1}{5} + \frac{1-x}{3} = x + 1$  (2marks)

4. By the use of mathematical tables, solve the following equations (express your answers in standard form i.e.  $(A \times 10^n)$ )

a.  $\sqrt{0.031}$  (2marks)

c.  $0.047^2$  (2marks)

b.  $\sqrt{13.06}$  (2marks)

d.  $0.144^2$  (2marks)

5. Wepughulu, Wanjiku and Adan start at the same time, and in the same direction, to run round a circular course. If Wepughulu makes the circuit in 252 seconds, Wanjiku in 308 seconds and Adan in 198 seconds, and they start from the same point, when will they next be all at the starting point together? (2marks)

6. Simplify:  $7 \text{ of } 13 - (18 \div 6 + 3) \div (9 \times 3 - 25)$  (2marks)