## TSUCND

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| Form 1 | Term 2 | 121 A - Mathematics | 19-Jun-16 | Weekly Ambush |
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ADM............. NAME ................................................................. CLASS ........ |33mks|

1. Evaluate:
a. $5 \times 6+(-76) \div 4+27 \div 3$
(=2MKS)
b. $(-15) \div 3 \times(-4)$
(=2MKS)
2. Express the first quantity as a fraction of the second to the simplest form
a. $100 \mathrm{~g}, 600 \mathrm{~g}$
(=1MKS)
b. $50 \mathrm{~kg}, 15$ tonnes
(=2MKS)
3. Simplify the algebraic expression given by:
$-2\{-x-2 a-(a-x)\}$
(=3MKS)
4. A number $\boldsymbol{n}$ is such that when it is divided by 27,30 or 45 the remainder is always 3 . Find:
a. L.C.M of 30,27 and 45 (=2MKS)
b. Find the value of $\boldsymbol{n}$
(=1MK)
5. Convert the following decimals into fractions leaving your answer in standard form i.e. $\left(A \times 10^{n}\right)$
a. 0.13
$(=2 \mathrm{MKS})$
b. $3 . \dot{2} \dot{4}$
( $=2 \mathrm{MKS}$ )
6. By the use of mathematical tables, workout the following expressions leaving your answer in standard form i.e. $\left(A \times 10^{n}\right)$
a. $5.75^{2}$
(=2MKS)
c. $\sqrt{121.81}$
(=2MKS)
b. $0.00015^{2} \quad(=2 \mathrm{MKS})$
d. $\sqrt{0.0012181}$
(=2MKS)
7. A photograph is reduced in the ratio $3: 5$ for a newspaper and further reduced in the ratio $4: 5$ for a textbook. Find the ratio of the newspaper size to the textbook size
8. The LCM of three numbers is 6732 and their GCD is 4 . Two of these numbers are 36 and 68; find the other number (=3MKS)
9. Ole Mandondo made a trip from Gatitu to Machakos a distance of 60000 M . He later boarded a train from Machakos to Mombasa 450 KM away. Find the ratio of the distance from Machakos to Mombasa to that of Gatitu to Machakos. (=2MKS)
