## FooCUS A365

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ADM	NAME	 ·	 ASS	33mks
1. Evaluate:			 	10.0

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a. 
$$5 \times 6 + (-76) \div 4 + 27 \div 3$$

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$$(=2MKS)$$

Weekly Ambush

b. 
$$(-15) \div 3 \times (-4)$$

$$(=2MKS)$$

2. Express the first quantity as a fraction of the second to the simplest form

$$(=1MKS)$$

$$(=2MKS)$$

3. Simplify the algebraic expression given by:

$$-2\{-x-2a-(a-x)\}$$

$$(=3MKS)$$

- 4. A number 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 
$$n$$

$$(=1MK)$$

5. Convert the following decimals into fractions leaving your answer in standard form i.e.  $(A \times 10^n)$ 

a.  $0.\dot{1}\dot{3}$ 

(=2MKS)

b. 3.24

(=2MKS)

6. By the use of mathematical tables, workout the following expressions leaving your answer in standard form i.e.  $(A \times 10^n)$ 

a.  $5.75^2$ 

(=2MKS)

c.  $\sqrt{121.81}$ 

(=2MKS)

b.  $0.00015^2$  (=2MKS)

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 (=3MKS)
- 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 60000M. He later boarded a train from Machakos to Mombasa 450KM away. Find the ratio of the distance from Machakos to Mombasa to that of Gatitu to Machakos. (=2MKS)