

MATHEMATICS FORM 1 END OF TERM 2 2013 EXAM

1. Show how the following additions and subtraction done using a number line. 2mks

a)  $(-5) + (-3)$

b)  $(-6) - (-3)$

2. Write the number in words

96,708,476

2mks

3. Write the value of

$$2^4 \times 3^2 \times 5^2$$

2mks

4. Express As a single fraction

$$\frac{x-1}{2} + \frac{x+2}{4} + \frac{x}{5}$$

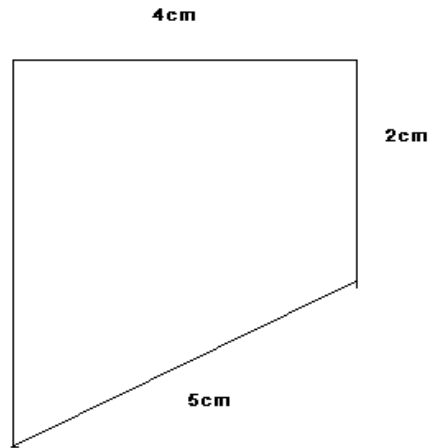
2mks

5. Simplify by use of common factors

2mks

18ar - 18am

6. Jane is 10 years older than her brother John. Find an expression for
- a) The sum of their ages 1mk
  
  - b) The sum of their ages in 5 years time 2mks
  
  - c) The product of their ages 3 years ago 2mks
7. 4 men can till a piece of land in 6 days. How long would it take 2 men to till the same piece of land? 2mks
8. The enrolment in wengi primary school was 1283 pupils last year. The enrolment this year is 109% of last year's. What is this year's enrolment? 3mks
9. Find the perimeter of 2mks



10. Add and express your answer in metres 1.3 km, 3.8 Hm, 2 Dm, 4m, 20 dm, 16mm  
3mks

11.

a) Express 125689 to 4, 3, 2, and 1 significant figures 4mks

b) Express 0.09854 to 1,2 and 3 decimal places. 3mks

12. The profit of a divided between now plant, reserves and dividends are in the ratio 3: 7: 9.  
If the profit is sh. 380,000. What is the amount put to dividends? 2mks

13. A trader plans to increase prices in the ratio 7:6. What will be the new price of an iron box which is marked at sh. 1800? 2mks

14. An alloy is to be made by combining copper and aluminium in the ratio 3:8. If there is 39kg of copper, how much of aluminium is required to make the alloy? 2mks

15. If  $a:b = 3:4$  and  $b:c = 5:7$  find  $a:c$  2mks

16. A factory produced 4200 rolls of barbed wire in a 5 – day working week . What was the rate of production of rolls of wire per day? 2mks

17. Factorise the expression  
 $X^2 + x y + 2x + 2y$  2mks

18. Find



1764

by factorization

3mks

19. Express  $0.1^{50}$  as a fraction

3mks

**ALL THE BEST**