Standard 6 End Term 1 Exam, 2016

MATHEMATICS
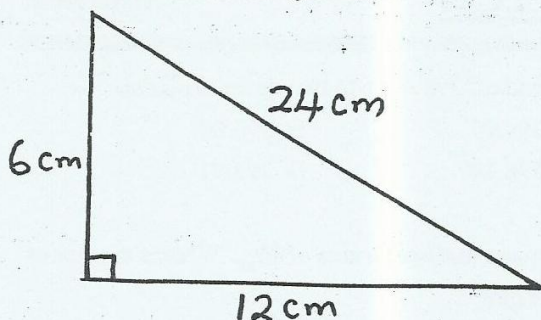
TIME: 2HRS.

1. Write seven million one thousand and eight in symbols?
   A. 7001008   B. 7010008
   C. 7001080   D. 7000008

2. Which of the following numbers is divisible by 8?
   A. 16428   B. 4132
   C. 91752   D. 11268

3. Round off **889999** to the nearest thousands
   A. 889 000   B. 890 000
   C. 889 900   D. 900 000

4. Write the reciprocal of $7^2/_3$?
   A. $^{23}/_3$ B. $^{12}/_3$
   C. $^3/_{12}$ D. $^3/_{23}$

5. Work out: $32^2/_3 - 28^5/_6$
   A. $4^1/_6$ B. $4^5/_6$
   C. $3^5/_6$ D. $4^2/_3$

6. Find the area of a square plot whose side measures 900m
   A. 8100m²   B. 810000m²
   C. 1800m²   D. 180000m²

7. Simplify $5(k + 3m) + 3(2k + 2m)$
   A. $11k + 17m$ B. $11k + 21m$
   C. $11k + 6m$ D. $10k + 21m$

8. Work out: $(7^2/_3)^2$
   A. $58^7/_9$ B. $51^8/_9$
   C. $60^7/_9$ D. $^{23}/_3$

9. Round off 395.9986 to two decimal places.
   A. 396.01   B. 396.00
   C. 396.10   D. 395.91

10. A square mat has an area of $3^6/_{25}$. What is the size of its length?
    A. $^{81}/_{25}$ B. $1^2/_5$
    C. $2^4/_5$ D. $1^4/_5$

11. What is the total value of digit 6 in 568431?
    A. 6000   B. 60000
    C. 6000000   D. 600000

12. Which of the following numbers is not divisible by 6?
    A. 216   B. 162
    C. 132   D. 621

13. Work out: $5^3/_7 + 2^4/_5$
    A. $7^8/_{35}$ B. $8^8/_{35}$
    C. $8^7/_{35}$ D. $7^7/_{35}$

14. Convert $^3/_8$ to a decimal.
    A. 0.375   B. 0.8
    C. 0.0375   D. 2.66

15. Express 25% as a decimal
    A. 0.025   B. 2.5
    C. 0.25   D. 0.205

16. Work out: **4969 x 79**
    A. 392551   B. 391551
    C. 382515   D. 391255

17. Find the LCM of **18, 45** and **72**
   A. 288
   B. 360
   C. 180
   D. 120

18. Find the area of the triangle below

   A. 144cm²
   B. 36cm²
   C. 72cm²
   D. 288cm²

19. A journey took $2\frac{1}{2}$ hours how many seconds are there?
   A. 1800 sec
   B. 9000 sec
   C. 3600 sec
   D. 7200 sec

20. Work out:

Weeks	Days	Hours
5	5	18
+ 7	6	21

   A. 13 weeks 5 days 15 hours
   B. 12 weeks 5 days 15 hours
   C. 12 weeks 11 days 39 hours
   D. 13 weeks 6 days 14 hours

21. Solve the equation?
   $\frac{1}{3}x + 8 = 11$
   A. 1
   B. 9
   C. 57
   D. 4

22. A man carried a load of 12kg 726g in wheel barrow per trip. Calculate the total load carried in nine trips
   A. 214kg 534g
   B. 114kg 534g
   C. 534kg 214g
   D. 314kg 534g

23. Mbugua bought a television set for Shs. 1200 and later sold it for Shs. 1800. What profit did he make?
   A. Sh. 600
   B. Sh. 200
   C. Sh. 800
   D. 500

24. What is the next fraction in the sequence
   $\frac{1}{4}, \quad \frac{1}{9}, \quad \frac{1}{16}, \quad \frac{1}{25}$
   A. $\frac{1}{30}$
   B. $\frac{1}{40}$
   C. $\frac{1}{49}$
   D. $\frac{1}{36}$

25. A book seller got 25% profit on every book she sold. If she sold a book for Shs. 160. How much profit did she make?
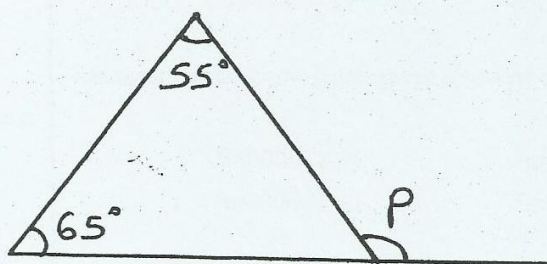   A. Sh. 40
   B. Sh. 32
   C. Sh. 15
   D. Sh. 60

26. Simplify: $x - 7x + 5x + 10x - 6x$
   A. 3x
   B. 5x
   C. 10x
   D. 6x

27. Write 45 in Roman numerals?
   A. XLV
   B. XVL
   C. LXV
   D. LVX

28. Find the value of angle marked **P**
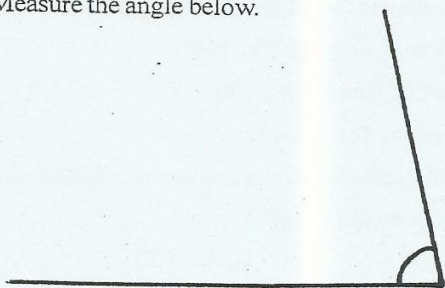

   A. 60⁰
   B. 120⁰
   C. 90⁰
   D. 50⁰

29. Find the GCD of **30, 72** and **102**
   A. 102
   B. 204
   C. 6
   D. 8

30. Find the sum of prime numbers between 60 and 70.
   - A. 130
   - B. 260
   - C. 325
   - D. 128

Calculate its volume
   - A. 192cm³
   - B. 96000cm³
   - C. 96cm³
   - D. 192000cm³

31. Measure the angle below.

   - A. 100⁰
   - B. 80⁰
   - C. 70⁰
   - D. 110⁰

36. Thirty casual labourers share equally Sh. 10800. How much did each one of them get?
   - A. Sh. 360
   - B. Sh. 36
   - C. Sh. 3600
   - D. Sh. 1021

37. Complete the statement by filling in the blank

$$\frac{2}{3} = \frac{\square}{15}$$

   - A. 10
   - B. 9
   - C. 6
   - D. 4

32. A school whose population is 2460 pupils bought four exercise books per pupil at a cost of Sh. 21.20 each. How much money did the school spend?
   - A. Sh. 208608
   - B. Sh. 52152
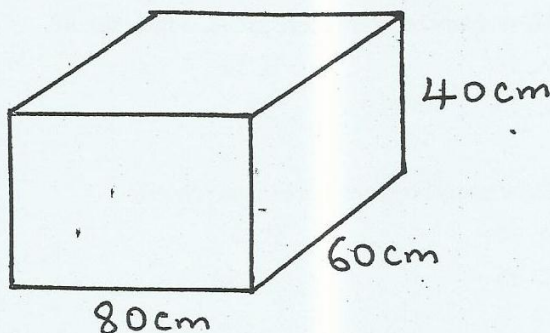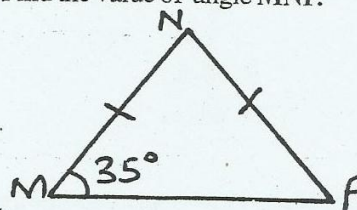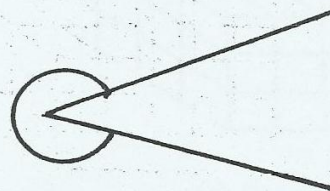   - C. Sh. 521520
   - D. Sh. 104304

38. Find the value of angle MNP.

   - A. 35⁰
   - B. 25⁰
   - C. 55⁰
   - D. 110⁰

33. Work out: $100 + 0.38 + 9.89 - 1.11$
   - A. 109.16
   - B. 111.38
   - C. 91.6
   - D. 108.16

39. Work out: $10 \times 5\frac{5}{6}\%$
   - A. $58\frac{1}{3}$
   - B. $\frac{1}{3}$
   - C. $65\frac{1}{3}$
   - D. 55

34. Work out: 0.7×10
   - A. 700
   - B. 7
   - C. 70
   - D. 0.07

40. Name the angle shown below.

   - A. acute
   - B. reflex
   - C. obtuse
   - D. right

35. **The figure below represents a water tank**

40cm

60cm
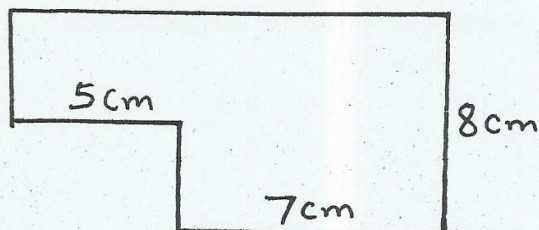
80cm

41. Divide: $8 \div \frac{4}{5}$

    A. 8   B. 10

    C. $\frac{40}{5}$ D. $\frac{2}{5}$

42. Solve the equation: $2n + 1\frac{3}{4}n = 60$

    A. 20   B. 16

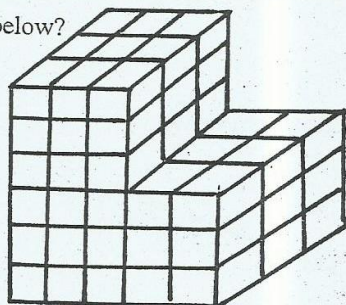   C. 18   D. 30

43. Find the perimeter of the figure below

    A. 20cm   B. 96 cm

    C. 32 cm   D. 40 cm

44. On a map 1 cm rep. 30m. How many centimetres would represent 210m

    A. 70cm   B. 7cm

    C. 0.7cm   D. 700cm

45. How many small cubes have been used to make the stack below?

    A. 54   B. 60

    C. 72   D. 48

46. Write **0.45** as a fraction

    A. $\frac{5}{100}$ B. $\frac{9}{20}$

    C. $\frac{100}{45}$ D. $\frac{7}{20}$

47. The length of a path is 3km 25m. What is the length in metres

    A. 3250m   B. 3205m

    C. 30025m   D. 3025m

48. Pamella bought the following items from the shop
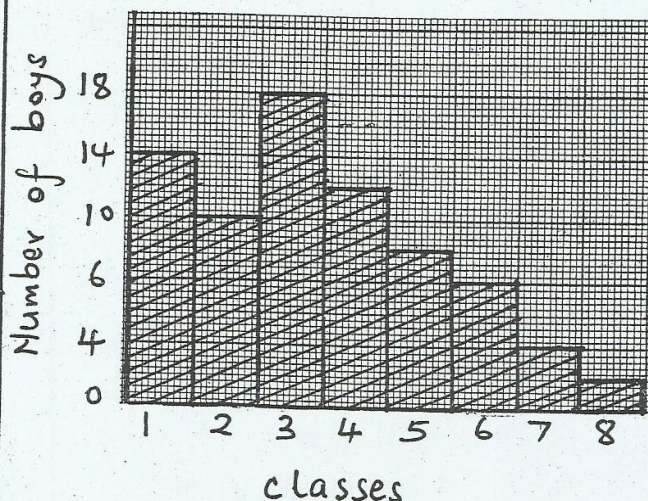
    2 packets of unga @ Sh. 130

    1 packet of rice @ Sh. 150

    3kg of sugar for Sh. 420

    If she paid using shillings one thousand note. How much balance did she get?

    A. Sh. 830   B. Sh. 170

    C. Sh. 300   D. Sh. 700

The graph below shows number of boys in Mboni Primary from Std. 1 to Std. 5

49. How many boys are there in Std. 3 than std. 8?

    A. 20   B. 16

    C. 18   D. 2

50. How many boys are there in the school?

    A. 60   B.52

    C. 36   D. 74