<u>**SECTION A**</u>

1. Divide: 48÷4=

2. Write one hundred one thousand eleven in figures.

3. Given that set Y = {2,5,7,9,} and set Y = {1,7,8,2}
Find n(XnY)'

4. Change 24_{ten} to ternary base.

5. Express 108km/hr into m/s

6. Find the sum of the missing numbers in the sequence: 125,64,27,__,__.

7. The price of a cloth decreased by 12.5% to Shs 28000. Find the original price of the cloth before the decreased.

8. Five men can dig a garden in 4 hours. How many hours will 2 men working at the same rate take to dig the same garden?

9. A baby slept at 9:00 pm and woke up at 2:30am. How long did the baby sleep?

10. A dice is tossed once, what is the probability that a triangular number shows up?

11. Solve: 4y-(y-1) = 10

12. Today Monday, what day of the week was it 53 days ago?

13. Using a ruler pencil and a pair of compasses only, construct angle 157.5°

14. How many 250ml packets of cooking oil can be obtained from 7.5 litres of cooking oil?

15. The bearing of town P from Q is 075°. What is the bearing of town Q from town P?

18. Without dividing, show that 121 is divisible by 11.

19. The mean of 3, x-2, 4 and 7 is 5. Find the value of x.

20. A trader deposited Shs 400,000 and earned an Shs 8000 as interest after 6 months. At what rate did he receive the interest?

21) At a party, 3y+4 guests ate meat only, 2y-1 ate chicken only, y guests ate both meat and chicken while y-5 ate none of the dishes.

a) Draw a venn diagram and represent the above information (3 marks)

b) If 48 guests ate only one dish, find the number of guests who ate both dishes.(2 marks)

(c) Find the probability of a guest who ate neither meat nor chicken. (1 mark)

22a) Workout: $\dfrac{0.48+0.24}{0.2\times0.6}$ (3marks)

b) Express 0.7272........... as a common fraction. (2 marks)

23) what number has been expanded to give;

$(4\times10^3) + (7\times10^2) + (3\times10^2) + (5\times10^1) + (8\times10^{-1}) + (9\times10^{-2})$?   (2marks)

b) Write 0.000576 in scientific form. (2 marks)

24) The sum of three consecutive counting numbers is 108.

a) If the middle number is Z, find the numbers.

(4 marks).

b) Find their range. (1 mark)

25) Byakatonda went shopping and bought the following items.

750gm of meat at Shs 15,000 per kg.

450ml of cooking oil at Shs 8000 per kg.

A packet of wheat flour at Shs 6000.

2.5kg of sugar at Shs 5000 per kg.

Calculate his total expenditure. (5marks)

26) Using a ruler, pencil and a pair of compasses only, construction a parallelogram ABCD where line AB = 7cm, angle ABC=120° and line BC = 4.5cm. (4 marks)

b) Drop a perpendicular from D to line AB at M.

Measure the height DM. (1 mark)

27) Mulokole distributed land to his three children Micheal, Gabriel and Raphael in the ratio of 2:3:5 respectively.

a) if Gabriel received 120 acres more than Michael, how many acres did Mulokole give out altogether? (4marks)

(b) How many more acres did Raphael receive than Gabriel?   (2 marks)

28) The exterior angle of a regular polygon is twice it's interior angle.

(a) Name the polygon.   (2 marks)

(b) Find it's interior angle sum.   (2marks)

29) The cylindrical tank holds 15,400 litres of water when full.
If it's height is 10m, Calculate the radius of the tank. (4 marks)

30) The average weight of 4 boys is 30kg. When the fifth boy joins the group, the average weight becomes 25kg. Find the weight of the fifth boy.

(4marks)

b) A pupil scored the following marks in a weekly test 7, 5,9,6,4,8. Find her median mark. (1 mark)

31) At Mulungi's farm, there are 20% more cows than goats and 10% less sheep than goats.
If there are 240 goats on the farm, how many animals are on the farm altogether?   (5marks)

32) At Mercy stationary, a pen is 1/2 the cost a book and a pencil is 1/4 the cost of pen.
If their total cost is Shs 5200. Find the cost of a pen? (5 marks).

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