### KAKOLA CLUSTER EXAMINATION BOARD

# 2023 MOCK 3 EXAMINATION FOR STANDARD 8 MATHEMATICS

(100 Marks)

NAME:

#### **SECTION A**

1.	Which of the following is the
	smallest mass?

- a. 30decagrams c. 30decigrams
- b. 30miligrams d.30hectograms
- 2. The following are the heights of the five buildings 18m 16m, 12m xm and 16m. If their mean is 16. Find the values of xm
  - a. 12m
- c. 18m
- b. 80m
- d. 65m
- **3.** What is the mode of the a five heights
  - a. 18m
- c. 12m
- b. 16m
- d. 177m
- 4. Add 84.04, 22 ,0.55 and 8
  - a. 85.61
- c. 84.89
- b. 114.59
- d. 92.81
- 5. Arrange the following fraction is descending order  $\frac{3}{10}$ ,  $\frac{1}{5}$ ,  $\frac{4}{15}$ ,  $\frac{2}{5}$ 
  - A.  $\frac{2}{5}$  ,  $\frac{3}{10}$  ,  $\frac{4}{15}$ ,  $\frac{1}{5}$
  - B.  $\frac{1}{5}$  ,  $\frac{4}{15}$  ,  $\frac{3}{10}$  ,  $\frac{2}{5}$
  - C.  $\frac{3}{10}$ ,  $\frac{4}{15}$ ,  $\frac{2}{5}$ ,  $\frac{1}{5}$
  - D.  $\frac{4}{15}$ ,  $\frac{3}{10}$ ,  $\frac{2}{5}$ ,  $\frac{1}{5}$
- 6. The product of two numbers is 288. One of the numbers is the sum of 7 and 5. Find the other number
  - a. 32
- c. 144
- b. 12
- d. 24
- 7. How many fortnights are there in 56 days
  - a. 8
- c. 5
- b. 2
- d. 4

- **8.** Which of the following is a list of prime numbers only between 30 and 45
  - a. 31, 37,43,45
- c. 31, 35,37,
- 43
- b. 31,37,41,43 33,37,41
- d. 31,
- 9. Which of the following numbers

- a. 19
- c. 17
- b. 7
- d. 8
- 10. A cellphone was a bought at k123 999. If a discount of k15 405 was given , find the selling price
  - a. K139 401
- c. K108 594
- b. K123 000
- d. K108 549
- 11. Express 45° as the ratio of full turn
  - a. 1:2
- c. 1:4
- b. 1:8
- d. 1:6
- **12.** Mary is 9years old and chikond is n years old. If the difference of their ages is 31. How old is john?
  - a. 31
- c. 34
- b. 40
- d. 44
- 13. What is missing number in the following number pattern [100, 2] [5, 40] [200, 1] [\_\_\_\_,4]
  - a. 4
- c. 146
- b. 2
- d. 50
- 14. Express  $3\frac{3}{7}$  as a decimal and write the **answer** to 2 decimal places

- a. 3.43
- $c. \frac{24}{7}$
- b. 3.429
- d. 342.8
- 15. Write 460 in roman numerals
  - a. CDLVII
- c. CDLIV
- b. CCCCLLXD
- d. CDLX
- **16.** Increase 870 in the ratio 6: 5
  - a. 1074

c. 1044

b. 1045

- d. 1025
- 17. Solve the equation 2x + 2 = x + 6
  - a. X = 2
- c. X = 4
- b. X=3
- d. X=8
- **18.** A workers salary is k14 200 per month. If he receives k12 700 per

- month after deducting income tax. find income tax per year
- a. K1250
- c. K1000
- b. K18 000
- d. K26 900
- **19.** Find the highest number of 6 ,8 and 12
  - a. 48

c. 24

b. 2

- d. 12
- **20.** How many 250g packets of salt can be packed
  - a. 5

c. 200

b. 100

d. 50

# SECTION B [60MARKS] ANSWER ALL QUESTIONS IN THIS SECTIONS

21.

a. Solve the equation

$$2x + x - x - 7 = 1$$

b. A family has 3meals in a day. During each meal 250ml of milk is used.How many days will the family take to use 3000ml of milk?

3

22.s

m

4marks

a. Simplify  $2\frac{2}{9} \times [3\frac{3}{4} - 1\frac{5}{8}] \div 1\frac{1}{3}$ 

## total money that getrude paid the post office

ii.

#### 4marks

b. A circular ground has diameter of 28.7m. calculate the length of wire that could be used to fence the ground [take  $\pi = \frac{22}{7}$ 

 A leaner was born when his teacher was celebrating his golden jubilee.
 Find the age of the learner when the teacher will be celebrating his diamond jubilee

### 3marks

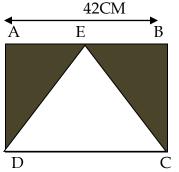
23.

a. The commission charged for sending money by fast cash is 10%. If Getrude sent k20 500 to his mother by fast cash they transfer Calculate i. commission paid

]

24.

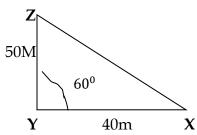
a. Figure 1 is a rectangle A B C and D with triangle CDE inside it



If AB =42CM and BC = 16CM, calculate the area of shaded part

25.

a. Figure 2 shows a drawing of triangle
 XYZ in which xy =40m and XZ
 =70M ANGLE XYZ= 60°



i. Using a scale of 1cm to represent 10m, draw the figure accurately

ii. Measure and state the length of ZX

26.

b. The value of television went down by 12% to k 24 6700 after one year.

Find the original value of the

television.

a. Mphatso bought 5metres of cloth at k750 per metre, 18 bananas at 3 for k100 and  $3\frac{1}{2}$  kg rice at k480 per kg. prepare a bill for mphatso

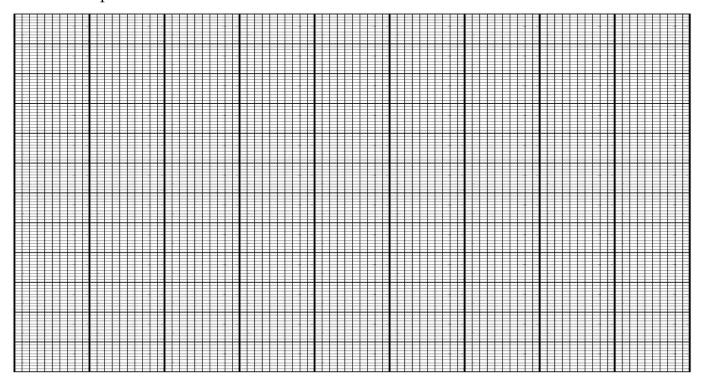
b. Aminibus left Kasungu at 11:30 and reached Mzuzu at 3:00pm on the same day. If the distance is 15km, calculate its average speed?

### 27.

a. Table below shows average rainfall recorded at a weather station for four weeks

week	Rainfall[mm]
1	35
2	47
3	18
4	20

Using a scale of 2cm to represent 10mm on the vertical axis, draw a linear to represent the information



4marks

$28.\mathrm{A}$ person paid k $420000$ as a custom duty for the goods bought. If the rate o	f the
custom duty was $52\frac{1}{2}\%$ . Find the value of the goods	

3marks

**29.** Mr phiri had k20 000 cash in hand on first January 2023. The following were her transaction

5<sup>th</sup> January paid for transport k6000

10th January sold eggs k12 000

27th January sold eggs k8000

20th January bought feeds k 5000

Prepare mr phiri's cash account as a balance it

5marks

### **END OF QUESTION PAPER**