

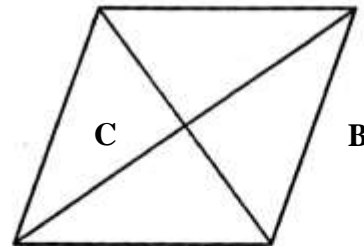
# BUTERE MUMIAS EVALUATION PAPER

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- You have been given this question booklet and a separate answer sheet.  
This question booklet contains 50 questions.
- Do any necessary rough work in this booklet.
- When you have chosen your answer, mark it on the ANSWER SHEET, not in this question booklet.
- Use only an ordinary pencil.
- Make sure that you have written on the answer sheet:

**YOUR INDEX NUMBER**  
**YOUR NAME**  
**NAME OF YOUR SCHOOL**

- Write one of the following in ninety million eight hundred and eighty eight thousand four hundred and eighty nine in symbols.  
A. 90880480                      B. 90888489  
C. 90889489                      D. 90898489
- How many times is the total value of digit 8 more than the total value of digit 2 in the number 784926?  
A. 79980                          B. 799980  
C. 4000                              D. 40000
- What is 6999.9986 rounded off to the nearest hundredths?  
A. 6999.99                        B. 6999.00  
C. 7000.00                        D. 7000
- What is the sum of the L.C.M and H.C.F of the numbers 54, 72 and 90?  
A. 1080                              B. 1062  
C. 1098                              D. 60
- A shopkeeper bought two crates of soda each containing 24 bottles. He then sold each bottle of soda at sh.30 making a 20% profit. How much had he paid for the crates of soda?  
A. Sh.1440                        B. Sh.1200  
C. Sh.25                             D. Sh.50
- After a decrease of sh.500 Peter's salary became sh.4500. What was the percentage decrease?  
A. 10%                              B. 11.11%  
C. 15%                              D. 11%



**Time: 2hrs**

- A**                                      **D**
- A. 25cm<sup>2</sup>                              B. 6cm
- What is  $\frac{1}{2}$  of  $(\frac{1}{3} - \frac{1}{4}) + \frac{1}{5}$ ?
  - In the figure below CD and AB are diagonal measuring 6cm and 8cm respectively. Find its area.

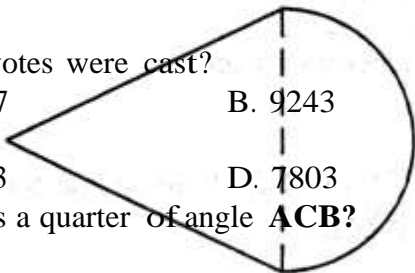
- C.  $24\text{cm}^2$                       D.  $20\text{cm}^2$
9. Martin paid sh.7200 for eight shirts after getting a discount of 10%. What was the marked price of each shirt?
- A. Sh.1000                      B. Sh.810  
C. Sh.8000                      D. Sh.9000
10. Nancy bought the following items from the shop.
- 2' /kg of sugar @ sh.120*  
*3kg of rice @ sh.100*  
*1' /kg of cooking oil for sh.180*  
*3 loaves of bread @ sh.90*  
*2 exercise books for sh.72*
- If she paid for the items above using two-one thousand shilling notes, how much balance did she receive?
- A. Sh.1122  
B. Sh.978  
C. Sh.878  
D. Sh.1022
11. Arrange the following fractions in ascending order:  $\frac{1}{4}, \frac{1}{2}, \frac{1}{3}, \frac{1}{6}$
- A.  $\frac{1}{6}, \frac{1}{3}, \frac{1}{4}, \frac{1}{2}$   
B.  $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{6}$   
C.  $\frac{1}{6}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$   
D.  $\frac{1}{2}, \frac{1}{4}, \frac{1}{3}, \frac{1}{6}$

12. The graph below is made up of a semi-circle and an equilateral triangle of side 14cm. What is half its perimeter?
- A. 50cm                      B. 64cm
13. George rode from home to school at a speed of 15km/h. He then rode back at a speed of 9km/h taking a total of 8 hours. Find the distance between his home and school.
- A. 24km                      B. 90km  
C. 48km                      D. 45km
14. The area of a square card is  $1\frac{1}{4}m^2$ . Find its perimeter.
- A.  $\frac{1}{2}m$                       B.  $4\frac{1}{2}m$   
C.  $114m$                       D.  $1\frac{1}{2}m$
15. The mean mass of eight girls is 44kg. The mass of seven of them are 45kg, 46kg, 45kg, 48kg, 43kg, 38kg and 45kg. Find their modal mass.
- A. 38kg                      B. 42kg  
C. 90kg                      D. 45kg
16. Find the next number in the sequence below.  
1, 1, 2, 3, 5, 8, — —
- A. 14                      B. 13  
C. 16                      D. 15
17. In an election there were three candidates X, Y and Z. Candidate X got 2175 votes, Y got 1002 votes less than Z who got 1500 votes more than X. 720 votes were spoilt. How
- A.  $30^\circ$                       B.  $120^\circ$   
C.  $40^\circ$                       D.  $60^\circ$
19. Wamboi borrowed sh.90000 from a bank which charged a simple interest at the rate of 12% p.a. How much money did she pay back after 8 months?
- A. Sh.7200                      B. S. 97200  
C. Sh.86400                      D. Sh.176400
20. Express 0.037 as a percentage.
- A. 37%                      B. 0.37%  
C.  $\frac{1}{100}$                       D. 3.7%
21. What is the square root of:  
 $\sqrt[16]{81}$
- A.  $\frac{1}{4}$                       B.  $\frac{1}{3}$   
C.  $2\frac{1}{4}$                       D.  $2\frac{1}{3}$
22. What is the place value of digit 2 in the product of 7.98 and 6.9?
- A. Ones                      B. Tens  
C. Thousandths                      D. Hundredths
23. Work out:  $4.5 \times 15.21$   
 **$0.225 \times 169$**
- A. 1.8                      B. 18  
C. 180                      D. 0.18
24. A river is represented on a map using a scale of 1:2500. What will be the drawing length of a river 5km on the map?
- A. 200m                      B. 20000cm  
C. 2m                      D. 20cm
25. What is the capacity of a rectangular container measuring 0.2m by 0.5m by 0.7m in litres?
- A. 7000 litres                      B. 7 litres  
C. 700 litres                      D. 70 litres
26. The length and width of a rectangle are 20cm and 15cm respectively. The measurements are increased by 20%. What is the area of the rectangle?

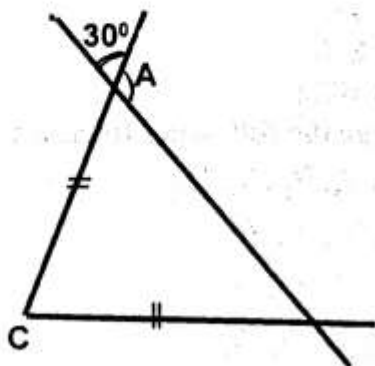
many votes were cast?

- A. 5497
- B. 9243
- C. 8523
- D. 7803

18. What is a quarter of angle  $\angle ACB$ ?



**B**



- A. 432cm
- B. 300cm<sup>2</sup>
- C. 132cm<sup>2</sup>
- D. 180cm<sup>2</sup>

27. Oduor made a loss of 20% after selling a pullover for sh.1200. Calculate his buying price.

- A. Sh.1220
- B. Sh.960
- C. Sh.1500
- D. Sh.1440

28. What is the smallest number that must be subtracted from 376234 to make it divisible by 11?

- A. 1
- B. 2
- C. 3
- D. 4

29. Work out:  
[0. 23@i



36. ~~Lat~~

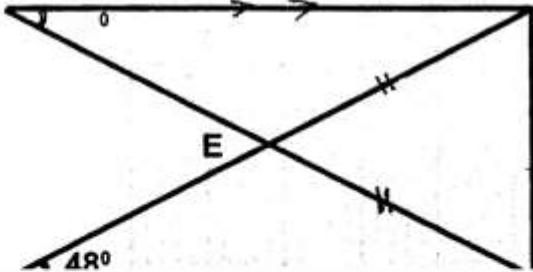
What is the size of angle DEC?

- A.  $89^\circ$                       B.  $91^\circ$   
 C.  $86^\circ$                       D.  $96^\circ$

In the year 2016, March 1<sup>st</sup> was a Friday.

What day was 16 June the same year?

- A. Friday                      B. Thursday  
 C. Wednesday              D. Saturday



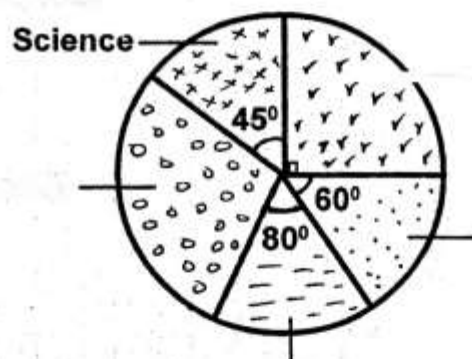
**Mathematics**

If 765 pupils chose Kiswahili, how many pupils chose Mathematics?

- A. 760                      B. 720  
 C. 540                      D. 405

42. Three girls Wambui, Wanjiru and Mercy did a test. Wanjiru had 8 marks less than Mercy while Wambui had 19 more marks than Wanjiru. If Mercy had  $w$  marks, find the total marks they all had?

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A.  $3w-3$   
C.  $3w+3$

B.  $3w+11$   
D.  $3w-11$

A. Sh.10000  
C. Sh.90000

B. Sh.110000  
D. Sh.80000

43. The sides of a triangle are in the ratio 3:4:6. If the longest side is 18cm, what is the perimeter of the triangle?

A. 13cm  
C. 31cm

B. 39cm  
D. 78cm

44. Construct a triangle ABC where  $AB=BC=4$ cm. Draw a circle that touches the three vertices of the triangle.

What is the diameter of the circle?

A. 2.6cm  
C. 4.6cm

B. 1.3cm  
D. 2.3cm

45. What is the value of:

$$2z^2 - 2(x-9) \\ x-y$$

if  $z=y+5$ ,  $x=1/2z$  and  $y=3$

A. 64  
C. 126

B. 128  
D. 32

46. A car was sold at sh.100000 through a dealer. The dealer charged the owner a 10%

commission on the selling price. How much did the owner get?

47. Kazungu bought a radio on hire purchase terms. He paid a deposit of sh.900 and 9 equal monthly instalments of sh.300. The hire purchase price was 20% more than the marked price. What was the marked price of the radio?

A. Sh.3500  
C. Sh.600

B. Sh.3000  
D. Sh.1200

48. Ten identical taps can fill a tank of water in 8 minutes. How many more taps would be needed to fill the same tap in 5 minutes?

A. 16  
C. 8

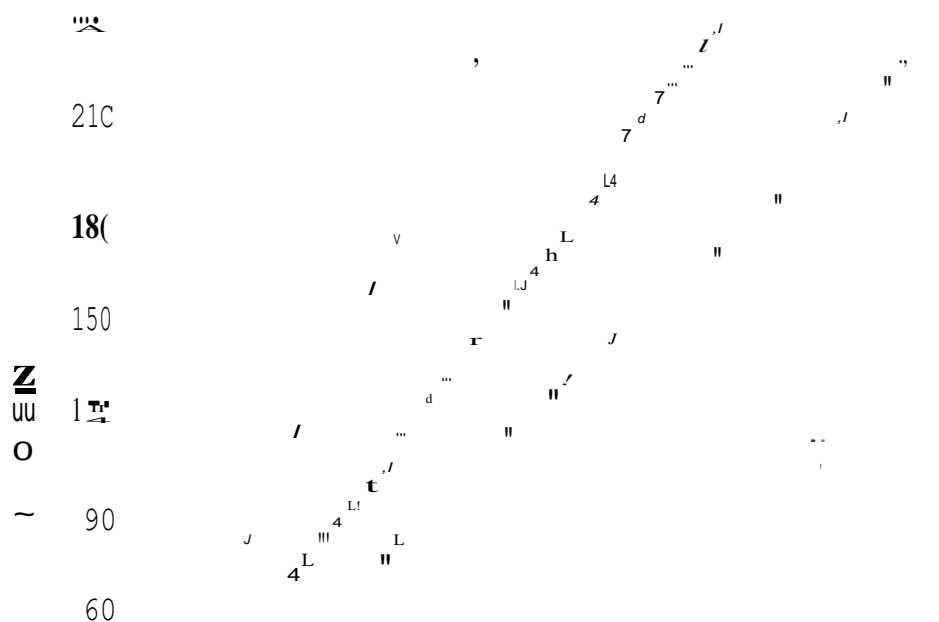
**B. 6**  
D. 5

49. Rotich shared money among his three children. The first got  $1/3$ , while the second got  $1/4$  of the money. The third got  $1/5$  of what remained. Rotich was left with sh.3000. How much money had he before it was shared?

A. Sh.72000  
C. Sh.36000

B. Sh.14400  
D. Sh.108000

The graph below shows the journey made by the three motorists Ali, Juma and Omondi. Use it to answer question 50.



1  
4  
J  
1,-  
d  
d

8am 9am 10am. 11am 12pm 1pm 2pm  
TIME IN HOURS

50. Among the three motorists, who is the fastest?

- A. Ali
- B. Juma
- C. Omondi
- D. None

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