THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL PRIMARY SCHOOL LEAVING EXAMINATION

04E

MATHEMATICS

Time: 2:00 Hours

Wednesday, 19th September 2012 a.m

Instructions

- 1. This paper consists of fifty (50) questions in sections A, B and C.
- 2. Answer all the questions in each section.
- 3. Read all the given instructions in the **special answer sheet (OMR)** and fill in all the required information.
- 4. Write your **Examination Number** and then **shade** it in your answer sheet.
- 5. Show clearly all the working in each question and **shade** a letter of the correct answer in the answer sheet provided. If the correct answer is A you will shade as follows:

EAR CB3 CC3 CD3 CE3

- 6. If you have to change your answer, you must rub out the shading **very neatly** before shading the new one. Use a **clean rubber**.
- 7. Use **HB pencil** only.
- 8. Cellular phones and calculators are **not allowed** in the examination room.

SECTION A: MATHEMATICAL OPERATIONS

For each of questions 1-25, work out the answer, then choose the correct option and **shade** its corresponding **letter** in the answer sheet provided.

NO	QUESTION	WORKING SPACE
1.	19,728 – 10,839 = A 8,889 B 9,889 C 9,899 D 9,989 E 9,999.	11
2.	3,750 ÷ 15 = A 205 B 250 C 25 D 2.50 E 2,050.	
3.	$3\frac{1}{5} \div \frac{4}{5} =$ A $\frac{16}{5}$ B $3\frac{4}{25}$ C $\frac{16}{25}$ D $2\frac{14}{25}$ E 4.	
4.	-0.822-0.349 = A 1.161 B -1.171 C -1.161 D -0.171 E 1.171.	
5.	8.113 × 1.93 = A 15.64509 B 15.68709 C 15.65809 D 15.65709 E 15.65609.	
6.	13789 – (6097+7906) = A -214 B -213 C -204 D 213 E 214	

Page 2 of 13

NO	QUESTION	WORKING SPACE
7.	$5\frac{3}{5} - 1\frac{2}{3} =$ A $4\frac{1}{15}$ B $4\frac{1}{2}$ C $3\frac{1}{15}$ D $4\frac{14}{15}$ E $3\frac{14}{15}$.	
8.	$1\frac{1}{2} + 3\frac{1}{2} + \frac{3}{8} = $ A $4\frac{5}{12}$ B $5\frac{1}{4}$ C $5\frac{3}{8}$ D $5\frac{5}{8}$ E $4\frac{3}{8}$.	
9.	(-2)-(-17)= A 16 B -19 C +15 D -15 E +19.	
10.	0.427 ÷ 0.07 = A 6.10 B 61.0 C 0.61 D 0.061 E 610.	
11.	287 × 35 = A 7,415 B 9,945 C 10,045 D 9,045 E 10,015.	January Commence of the Commen
12.	6,879 + 926 + 68 + 9 = A 7,882 B 6,782 C 6,852 D 7,782 E 7,852.	
13.	Calculate $2^2 \times 641$ and then write the answer into Roman numbers. A MMDCLXIV B MMDLXIV C MMCDLXIV D MMLDXIV E MMDLIXV.	

Page 3 of 13

NO	QUESTION	WORKING SPACE
14.	Multiply the square roots of $1\frac{18}{32}$ and $11\frac{1}{9}$. A $2\frac{1}{2}$ B $2\frac{1}{12}$ C $3\frac{5}{6}$ D $11\frac{18}{288}$ E $4\frac{1}{6}$.	
15.	Write the answer for $\left(\frac{20.2}{10^2} \div \frac{1}{2}\right)$ into a simplified fraction. A $\frac{101}{25}$ B $\frac{202}{500}$ C $\frac{404}{1,000}$ D $\frac{101}{250}$ E $\frac{404}{100}$.	
16.	How many prime numbers are there between 10 and 20? A 3 B 5 C 6 D 4 E 7.	
17.	Find the product of $\frac{15}{16}$ and $\frac{20}{21}$. A $\frac{25}{28}$ B $\frac{63}{64}$ C $\frac{64}{63}$ D $\frac{35}{37}$ E $\frac{25}{24}$.	
18.	The Least Common Multiple (L.C.M) of 42, 45 and 150 is A $2 \times 3 \times 5 \times 7$. B $2^2 \times 3 \times 5^2 \times 7$ C $2 \times 3^2 \times 5 \times 7$ D $2 \times 3^2 \times 5 \times 7^2$ E $2 \times 3^2 \times 5^2 \times 7$	
19.	Divide 248 kg 640 gm by 32. A 77 kg 70 gm B 7770 kg 0 gm C 777 kg 0 gm D 7 kg 770 gm E 7 kg 777 gm.	

Page 4 of 13

NO	QUESTION	WORKING SPACE
20.	What number should be added to $\left(\frac{5}{2} + \frac{5}{4}\right)$ to get $\frac{1}{8}$? A 3 B $2\frac{3}{4}$ C $3\frac{5}{8}$ D $3\frac{1}{2}$ E $-3\frac{5}{8}$.	
21.	Change $\frac{0.6}{0.96}$ into percentage. A 625% B 62.5% C 6.25% D 0.0625% E 0.625%.	
22.	If $A = -1$ and $B = -2$, the value of x in $\frac{(A+B)(A-B)}{9} = \frac{1}{x}$ is $A -3 \qquad B \frac{1}{3} \qquad C 3$ $D \frac{3}{9} \qquad E -\frac{1}{3}$	
23.	11(p+q)-3(p-q) is the same as A $8p-14q$ B $8p+14q$ C $14p-14q$ D $14q8p$ E $-8p-14q$	
24.	Round off 85,996 to the nearest hundreds. A 85,900 B 85,990 C 85,000 D 86,000 E 80,000.	
25.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	

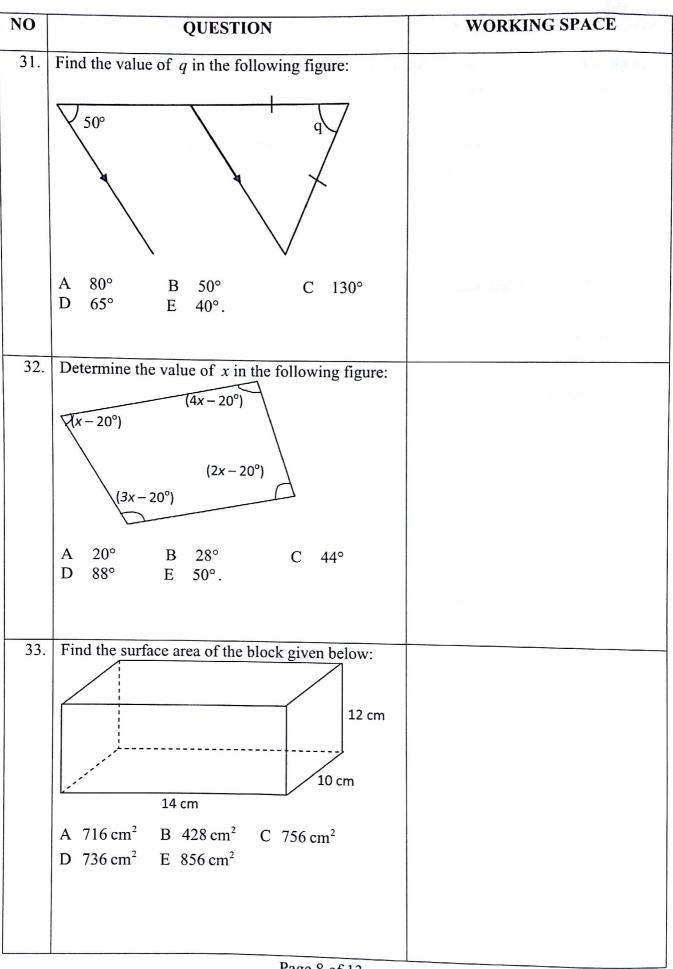
SECTION B: FIGURES

For each of questions 26 - 38, work out the answer, then choose and **shade** its corresponding **letter** in the answer sheet provided.

NO	QUESTION	WORKING SPACE
26.	Find the value of t in the following triangle: 5 12 A 25 B 144 C 13 D 169 E 17.	
27.	Find the area of the trapezium ABCD. D 6 cm C 5 cm A 12 cm B A 60 cm ² B 72 cm ² C 45 cm ² D 30 cm ² E 90 cm ² .	

Page 6 of 13

Page 7 of 13



NO	QUESTION	WORKING SPACE
34.	Find the volume of the following cube if the surface area of ABCD is 144 cm ² . B A B A B A B A C A C A D A 12 cm ³ B 144 cm ³ C 10,648 cm ³ D 1,728 cm ³ E 512 cm ³ .	
35.	Find the circumference of the following circle. (Use $\pi = \frac{22}{7}$). A 44 cm B 88 cm C 176 cm D 616 cm E 166 cm.	
36.	The following pie chart shows the amount of money from Primary Education Development Plan that was distributed to four districts; Rorya, Bunda, Musoma and Tarime in Mara region. If a total of shs 10,000,000 was distributed to the districts, how much money did Bunda district receive? Rorya A shs 1,250,000 B shs 2,083,333 C shs 3,333,333 D shs 8,750,000 E shs 1,350,000.	

Page 9 of 13

NO	QUESTION	WORKING SPACE
37.	Write down the coordinates of point M. Y	
38.	Find the area of the following closed cylinder. (use $\pi = \frac{22}{7}$) 70 cm A 1,232 cm ² B 6,776 cm ² C 616 cm ² D 6,160 cm ² E 7,392 cm ² .	

SECTION C: WORD PROBLEMS

For each of questions 39 - 50, work out the answer, then choose the correct option and **shade** its corresponding **letter** in the answer sheet provided.

NO	QUESTION	WORKING SPACE
39.	Ntubi is 12 km North of Bugando hospital and Sakina is 9 km on the East side of the hospital. Find the distance between them. A 15 km B 19 km C 25 km D 3 km E 21 km.	
40.	Juma and Roza shared sh 15,000 in the ratio 11:4 respectively. How much money did Roza get? A sh 9,000 B sh 10,000 C sh 5,000 D sh 11,000 E sh 4,000.	
41.	Kazimoto has 122 kilograms and 952 grams of maize while his brother has 348 kilograms and 370 grams of maize. How many grams of maize do they have altogether? A 471,322 B 460,222 C 460,322 D 470,222 E 461,322.	
42.	The product of 12 and another number is twice the sum of 20 and the number. Find the number. A 8 B 6 C 4 D 2 E 5.	
43.	Jumanne gave $\frac{2}{10}$ of kilograms of rice to his young brother and $\frac{1}{10}$ to his uncle. If he remained with 14 kg, how many kilograms did he had before? A 10 B 20 C 14 D 22 E 30.	
	Page 11 of 13	

NO	QUESTION	WORKING SPACE
44.	The average of five numbers is 42. If the first four numbers are 48, 54, 18 and 60, what is the fifth number? A 35 B 50 C 29 D 30 E 40.	
45.	Masingija went for shopping with shs 20,000 and bought the following items: 4 kg of flour @ shs 1,000; 6 kg of rice @ shs 1,200 and 6 bottles of soft drinks @ shs 400. How much money did she left with after buying all these items? A shs 13,600 B shs 6,400 C shs 12,600 D shs 7,600 E shs 7,400.	
46.	Find the cost of sending a telegram of 34 words, if the first 20 words cost shs 900 and shs 70 for each extra word. A shs 1,400 B shs 2,380 C shs 980 D shs 1,480 E shs 1,880.	
47.	1730 everyday. How many hours does Juakali take to sell the goods in his shop for 2 days? A 16.0 B 16.60 C 17.0 D 8.5 E 24.0	
48.	A large bottle of medicine has 425 liters 600 milliliters. If the medicine is put into 70 small bottles of the same size, what amount of milliliters shall each bottle possess? A 1,860 B 4,680 C 5,806 D 6,080 E 6,608	

Page 12 of 13

NO	QUESTION	WORKING SPACE
49.	The children coughing medicine in a bottle has 630 milliliters before being used. If the child will use 10 milliliters 3 times a day, how many weeks shall that medicine be used? A 1 B 2 C 3 D 4 E 5	
50.	Kakulima deposited sh 760,000 in a bank which offers an interest rate of 20% per year. Find the interest which he got after nine months. A shs 124,000 B shs 132,000 C shs 154,000 D shs 114,000 E shs 152,000.	