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

04E **MATHEMATICS**

Time: 2:00 Hours **Wednesday, 09th September 2015 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:

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.	225 + 59 + 3,772 = A 4,046 B 3,956 C 4,056 D 4,057 E 3,946	
2.	80,709 - 5,987 = A 75,882 B 74,722 C 75,922 D 74,812 E 75,722	
3.	170.2 ÷ 74 = A 2.30 B 2.40 C 2.03 D 3.02 E 3.20	
4.	94 × 765 = A 71,910 B 71,470 C 61,470 D 71,610 E 71,510	
5.	$3\frac{3}{5} + 1\frac{2}{3} =$ A $4\frac{6}{15}$ B $4\frac{5}{8}$ C $5\frac{3}{15}$ D $5\frac{4}{15}$ E $5\frac{5}{8}$	

NO	QUESTION	WORKING SPACE
6.	$5\frac{2}{3} - 2\frac{1}{4} =$ A $3\frac{2}{12}$ B $3\frac{4}{12}$ C $3\frac{11}{12}$ D $3\frac{5}{12}$ E $3\frac{7}{12}$	
7.	$-14\times(-19+16) =$ A -48 B 48 C 42 D -42 E 49	
8.	$(^{+}17) + (^{-}35) =$ A -52 B -18 C 18 D 42 E 52	
9.	$16\frac{1}{2} \div 6\frac{1}{3} =$ A $\frac{16}{6}$ B $\frac{19}{3}$ C $\frac{33}{2}$ D $\frac{99}{38}$ E $\frac{99}{19}$	
10.	$7{,}590 \div 15 =$ A 516 B 56 C 506 D 65 E 605	

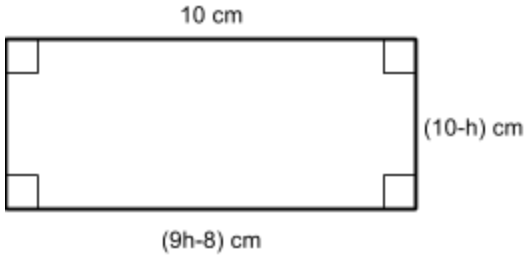
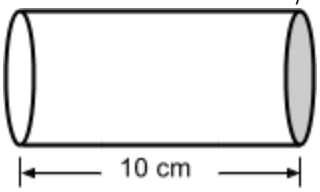
NO	QUESTION	WORKING SPACE
11.	30.24 ÷ 12 = A 2,520 B 25.20 C 252 D 2.52 E 0.252	
12.	19.62 + 6.35 + 21.1 = A 47.70 B 47.98 C 46.07 D 46.98 E 47.07	
13.	If m = -7 and n = -5, find the value of $\frac{m+n}{n-m}$. A -12 B 2 C 1 D 6 E -6	
14.	Compute the value of 12 − (-24) + (-9) × 4. A 0 B 48 C -48 D 72 E 108	
15.	Find the product of the prime numbers between 1 and 10. A 384 B 210 C 945 D 1,890 E 3,840	

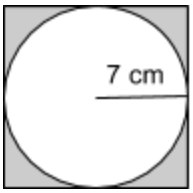
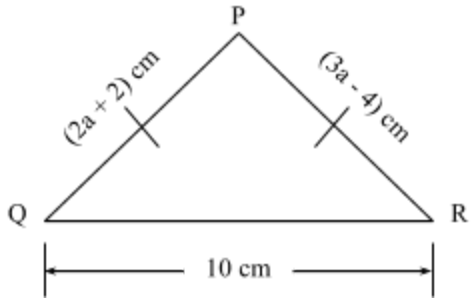
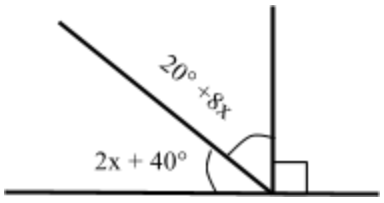
NO	QUESTION	WORKING SPACE
16.	Find the Greatest Common Factor (G.C.F) of 12, 24 and 36. A 6 B 12 C 24 D 36 E 72	
17.	Write $4\frac{1}{5}$ % as a fraction A $\frac{1}{500}$ B $\frac{2}{500}$ C $\frac{4}{500}$ D $\frac{21}{500}$ E $\frac{20}{500}$	
18.	Simplify $3(m-n)+5n-7m$. A $4m-2n$ B $-4m-2n$ C $2n-4m$ D $3m-3n$ E $-4m-8n$	
19.	Find the value of y if $\frac{3y-5}{7}+y=5$. A 2 B 6 C 4 D 8 E 5	
20.	How many $\frac{1}{3}$ are there in $\frac{41}{3}$? A $4\frac{5}{9}$ B $13\frac{2}{3}$ C $\frac{9}{41}$ D 9 E 41	

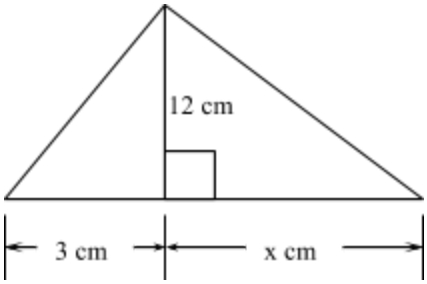
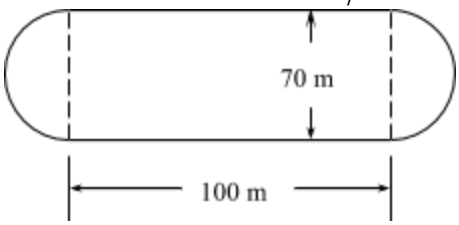
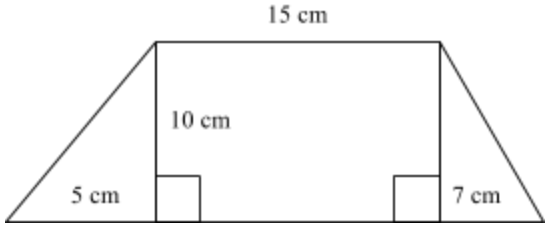
NO	QUESTION	WORKING SPACE
21.	Change the roman number CMXCIX into a normal numeral. A 9,999 B 99 C 999 D 99,999 E 999,999	
22.	Write the missing number in the sequence: 1, 4, ___, 16, 25. A 5 B 6 C 9 D 10 E 12	
23.	Find the Lowest Common Multiple (L.C.M) of 6, 9 and 12. A 3 B 36 C 54 D 72 E 108	
24.	Find the value of A if $2\frac{1}{4} : A = 12:48$. A 4 B 8 C 9 D 12 E 48	
25.	dm cm mm 4 3 5 - 1 4 6 A 2 dm 8 cm 9 mm B 2 dm 9 cm 9 mm C 3 dm 8 cm 9 mm D 2 dm 8 cm 1 mm E 1 dm 8 cm 8 mm	

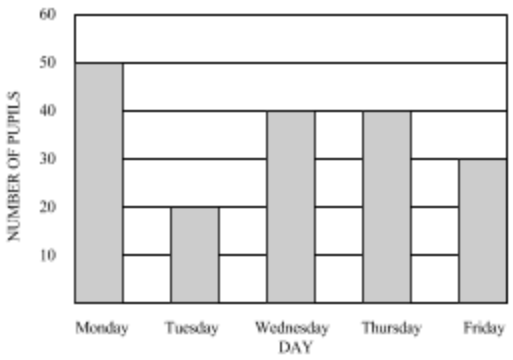
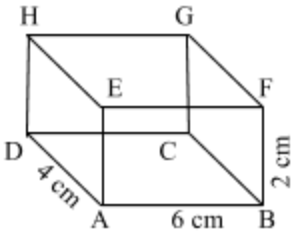
SECTION B: FIGURES

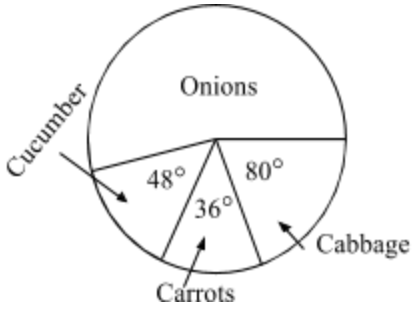
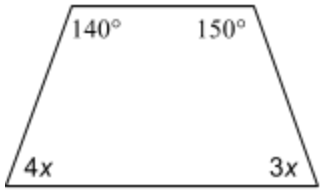
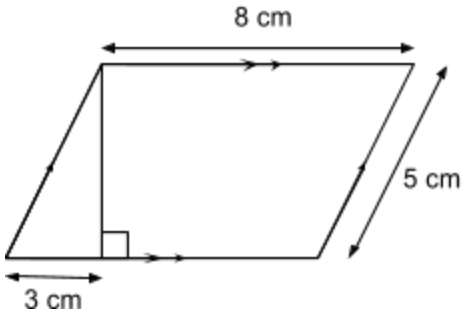
For each of questions 26-38, work out the answer, then choose the correct option and **shade its corresponding letter** in the answer sheet provided.

NO	QUESTION	WORKING SPACE
26.	Find the area of the following rectangle:  A $2\ cm^2$ B $8\ cm^2$ C $36\ cm^2$ D $80\ cm^2$ E $20\ cm^2$	
27.	Find the diameter of the following cylinder if its volume is $61.6\ cm^3$. (Use $\pi = \frac{22}{7}$)  A 1.4 cm B 1.96 cm C 2.8 cm D 6.16 cm E 3.92 cm	

NO	QUESTION	WORKING SPACE
28.	Find the shaded area if the circle inside the square has a radius of 7 cm. (Use $\pi = \frac{22}{7}$)  A 154 cm^2 B 49 cm^2 C 32 cm^2 D 42 cm^2 E 196 cm^2	
29.	Find the perimeter of the isosceles triangle PQR.  A 6 cm B 14 cm C 28 cm D 22 cm E 38 cm	
30.	Find the value of x in the following figure.  A 46° B 44° C 3° D 10° E 12°	

NO	QUESTION	WORKING SPACE
31.	The area of the following triangle is 66 cm^2. Find the value of x.  A 3 B 8 C 11 D 12 E 15	
32.	Find the area of the football ground shown in the following figure: (Use $\pi = \frac{22}{7}$)  A 3,850 m^2 B 7,000 m^2 C 7,770 m^2 D 10,850 m^2 E 15,400 m^2	
33.	Find the are of the following trapezium  A 70 cm^2 B 105 cm^2 C 150 cm^2 D 210 cm^2 E 50 cm^2	

NO	QUESTION	WORKING SPACE
34.	The following figure shows the attendance of standard seven pupils at Tumbi Primary School in the five days of the week. Find the average of their attendance per day.  A 180 B 50 C 36 D 30 E 20	
35.	Find the surface area of the following rectangular prism of which the face HEFG is open.  A 88 cm^2 B 64 cm^2 C 48 cm^2 D 44 cm^2 E 40 cm^2	

NO	QUESTION	WORKING SPACE
36.	Ilembula Primary School harvested 4,500 kilograms of vegetables that are shown in the following pie chart. Find the number of kilograms for onions that were harvested.  A 2,050 B 196 C 2,450 D 1,050 E 164	
37.	Find the value of x in the following figure:  A 10 B 30 C 40 D 140 E 150	
38.	Find the area of the following parallelogram:  A 24 cm^2 B 32 cm^2 C 40 cm^2 D 12 cm^2 E 25 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.	Zebedayo has 7 cows for milk. If each cow gives 5 litres of milk every day, how many litres of milk does she get per week? A 215 B 225 C 235 D 245 E 255	
40.	Perima has the following notes and coins of Tanzanian currency: 2 notes @ shs. 10,000; 3 notes @ shs. 5,000; 4 notes @ shs. 2,000; 5 notes @ shs. 1,000 and 10 notes @ 500. Also, he has 5 coins each of shs.200 and 4 coins each of shs. 100. How many shillings does he have in total? A 58,400/= B 54,400/= C 19,800/= D 34,400/= E 48,400/=	
41.	Musa deposited money in a bank that gives 5 percent interest rate for one year. If he deposited the money for a period of one year and gets an interest of 2,500 shillings, how much did he deposit in the bank? A sh. 5,000 B sh. 50,000 C sh. 500,000 D sh. 50,005 E sh. 5,005	
42.	Kazaroho answered correctly 45 out 50 questions in Kiswahili examination. What percentage did Kazaroho get? A 95 B 45 C 5 D 50 E 90	

NO	QUESTION	WORKING SPACE
43.	Mapinduzi Primary School has 28 teachers of which 18 are female. What is the fraction of the male teachers? A $\frac{18}{28}$ B $\frac{9}{14}$ C $\frac{5}{14}$ D $\frac{5}{9}$ E $\frac{5}{28}$	
44.	Maendeleo Primary School has a meeting room which is 12 meters in length and has a width of 5.5 meters. If inside the room, there is an area of 2.5 m^2 allocated for keeping various documents, find the remaining area. A 66 m^2 B 68.5 m^2 C 62.5 m^2 D 63.5 m^2 E 53.5 m^2	
45.	Moga and Juma shared one hundred twenty five thousand shillings in the ratio of 2:3 respectively. How much did Juma get? A 25,000/= B 50,000 C 62,500/= D 75,000/= E 100,000/=	
46.	Maganga's car travels a distance of 20 km with a speed of 80 km per hour. What time does it take to cover the whole journey? A 0.25 hours B 0.5 hours C 2.00 hours D 4.00 hours E 8.00 hours	

NO	QUESTION	WORKING SPACE
47.	A book is sold at seven thousand five hundred shillings at Jamali's shop. If the owner of the shop will give a discount of 10 percent, at how much shillings will the book be purchased? A 7,500/= B 7,490/= C 8,250/= D 6,750/= E 750/=	
48.	Kambona's salary per month is 456,500 shillings. If the salary will increase by 26 percent, how much will the new salary be? A shs. 118,690 B shs. 456,526 C shs. 337,810 D shs. 574,090 E shs. 575,190	
49.	A business man sold sugar for three months as follows: In January 1,500 kilograms, February 2,500 kilograms and in March 1,250 kilograms. How many tons of sugar were sold in three months? (1 Ton = 1,000 kilograms) A 4.25 B 425 C 5.25 D 6.25 E 5,250.	
50.	The weight of fruits that were sold at Mikunda market for four consecutive days were as follows: **Day** | Monday | Tuesday | Wednesday | Thursday **Weight (tons)** | 2 | 1 ½ | ½ | 2 ½ What is the average of kilograms of fruits that were sold at the market per day? A 1,625 kg B 1,375 kg C 1,250 kg D 1,500 kg E 6,500 kg	