

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

**04E**

**MATHEMATICS**

**Time: 2:00 Hours**

**Wednesday, 09<sup>th</sup> September 2015 a.m**

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**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.

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## 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.	$170.2 \div 74 =$ A 2.30      B 2.40      C 2.03 D 3.02      E 3.20	
4.	$94 \times 765 =$ 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	

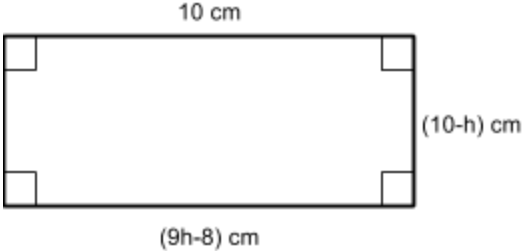
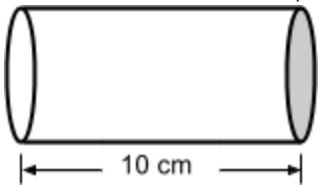
NO	QUESTION	WORKING SPACE
11.	$30.24 \div 12 =$ A 2,520      B 25.20      C 252 D 2.52      E 0.252	
12.	$19.62 + 6.35 + 21.1 =$ A 47.70      B 47.98      C 46.07 D 46.98      E 47.07	
13.	If $m = -7$ and $n = -5$ , find the value of $\frac{m+n}{n-m}$ . A -12      B 2      C 1 D 6      E -6	
14.	Compute the value of $12 - (-24) + (-9) \times 4$ . 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	

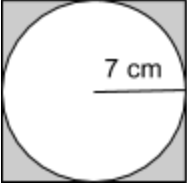
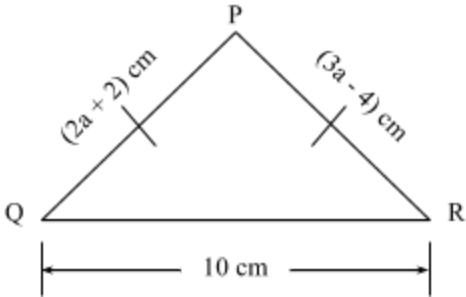
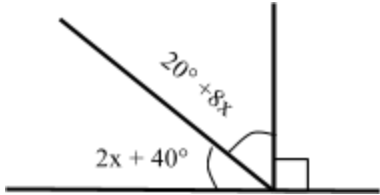
NO	QUESTION	WORKING SPACE
16.	Find the Greatest Common Factor (G.C.F) of 12, 24 and 36. A 6                      B 12                      C 24 D 36                      E 72	
17.	Write $4\frac{1}{5}\%$ as a fraction A $\frac{1}{500}$ B $\frac{2}{500}$ C $\frac{4}{500}$ D $\frac{21}{500}$ E $\frac{20}{500}$	
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.	$\begin{array}{r} \text{dm} \quad \text{cm} \quad \text{mm} \\ 4 \quad 3 \quad 5 \\ - \quad 1 \quad 4 \quad 6 \\ \hline \end{array}$ 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	

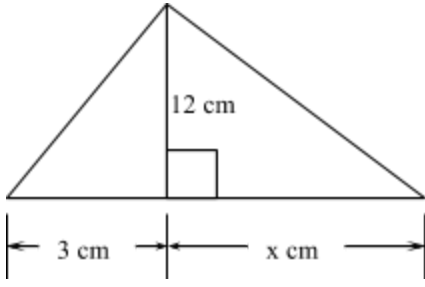
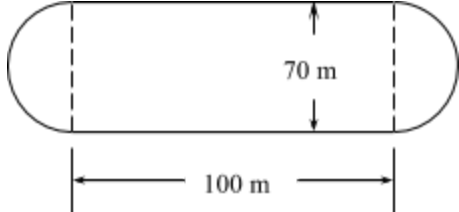
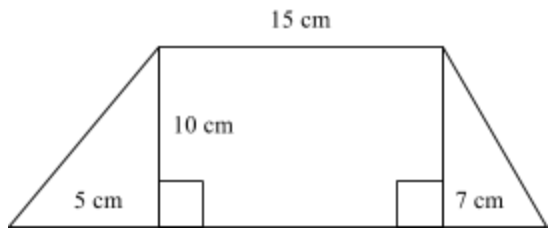
**SECTION B: FIGURES**

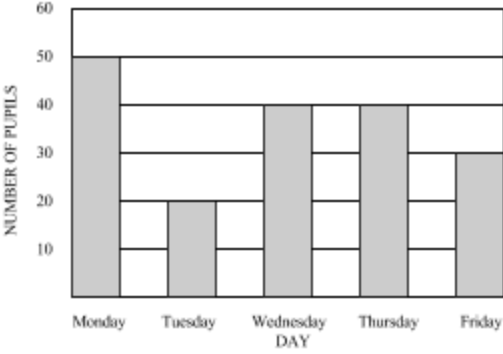
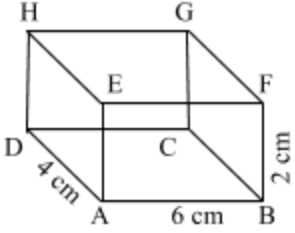
For each of questions 26-38, work out the answer, then choose the correct option and **shade its corresponding letter** in the answer sheet provided.

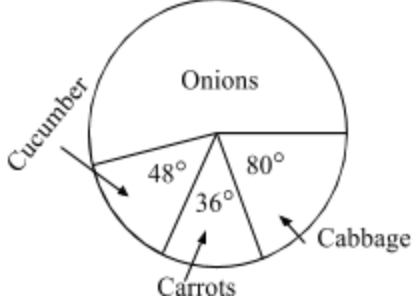
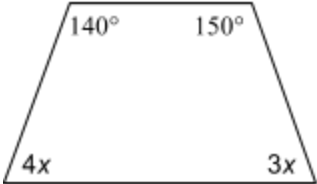
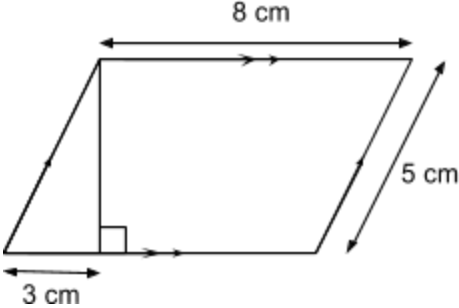
NO	QUESTION	WORKING SPACE
26.	<p>Find the area of the following rectangle:</p>  <p>A <math>2 \text{ cm}^2</math>      B <math>8 \text{ cm}^2</math>      C <math>36 \text{ cm}^2</math>  D <math>80 \text{ cm}^2</math>      E <math>20 \text{ cm}^2</math></p>	
27.	<p>Find the diameter of the following cylinder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

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



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

NO	QUESTION	WORKING SPACE
34.	<p>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.</p>  <p>A 180      B 50      C 36 D 30      E 20</p>	
35.	<p>Find the surface area of the following rectangular prism of which the face HEFG is open.</p>  <p>A <math>88 \text{ cm}^2</math>      B <math>64 \text{ cm}^2</math>      C <math>48 \text{ cm}^2</math> D <math>44 \text{ cm}^2</math>      E <math>40 \text{ cm}^2</math></p>	

NO	QUESTION	WORKING SPACE
36.	<p>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.</p>  <p>A 2,050      B 196      C 2,450 D 1,050      E 164</p>	
37.	<p>Find the value of <math>x</math> in the following figure:</p>  <p>A 10      B 30      C 40 D 140      E 150</p>	
38.	<p>Find the area of the following parallelogram:</p>  <p>A <math>24 \text{ cm}^2</math>      B <math>32 \text{ cm}^2</math>      C <math>40 \text{ cm}^2</math> D <math>12 \text{ cm}^2</math>      E <math>25 \text{ cm}^2</math></p>	

### 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.	<p>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?</p> <p>A 215            B 225            C 235 D 245            E 255</p>	
40.	<p>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?</p> <p>A 58,400/=    B 54,400/=    C 19,800/= D 34,400/=    E 48,400/=</p>	
41.	<p>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?</p> <p>A sh. 5,000                      B sh. 50,000 C sh. 500,000                  D sh. 50,005 E sh. 5,005</p>	
42.	<p>Kazaroho answered correctly 45 out 50 questions in Kiswahili examination. What percentage did Kazaroho get?</p> <p>A 95            B 45            C 5 D 50            E 90</p>	

NO	QUESTION	WORKING SPACE
43.	<p>Mapinduzi Primary School has 28 teachers of which 18 are female. What is the fraction of the male teachers?</p> <p>A <math>\frac{18}{28}</math>      B <math>\frac{9}{14}</math>      C <math>\frac{5}{14}</math>  D <math>\frac{5}{9}</math>      E <math>\frac{5}{28}</math></p>	
44.	<p>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<sup>2</sup> allocated for keeping various documents, find the remaining area.</p> <p>A 66 m<sup>2</sup>      B 68.5 m<sup>2</sup>      C 62.5 m<sup>2</sup>  D 63.5 m<sup>2</sup>      E 53.5 m<sup>2</sup></p>	
45.	<p>Moga and Juma shared one hundred twenty five thousand shillings in the ratio of 2:3 respectively. How much did Juma get?</p> <p>A 25,000/=      B 50,000      C 62,500/=  D 75,000/=      E 100,000/=</p>	
46.	<p>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?</p> <p>A 0.25 hours      B 0.5 hours      C 2.00 hours  D 4.00 hours      E 8.00 hours</p>	

NO	QUESTION	WORKING SPACE										
47.	<p>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?</p> <p>A 7,500/=    B 7,490/=    C 8,250/=  D 6,750/=    E 750/=</p>											
48.	<p>Kambona's salary per month is 456,500 shillings. If the salary will increase by 26 percent, how much will the new salary be?</p> <p>A shs. 118,690            B shs. 456,526  C shs. 337,810            D shs. 574,090  E shs. 575,190</p>											
49.	<p>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)</p> <p>A 4.25            B 425            C 5.25  D 6.25            E 5,250.</p>											
50.	<p>The weight of fruits that were sold at Mikunda market for four consecutive days were as follows:</p> <table border="1" data-bbox="318 1436 857 1549"> <thead> <tr> <th>Day</th> <th>Monday</th> <th>Tuesday</th> <th>Wednesday</th> <th>Thursday</th> </tr> </thead> <tbody> <tr> <td>Weight (tons)</td> <td>2</td> <td>1 ½</td> <td>½</td> <td>2 ½</td> </tr> </tbody> </table> <p>What is the average of kilograms of fruits that were sold at the market per day?</p> <p>A 1,625 kg    B 1,375 kg    C 1,250 kg  D 1,500 kg    E 6,500 kg</p>	Day	Monday	Tuesday	Wednesday	Thursday	Weight (tons)	2	1 ½	½	2 ½	
Day	Monday	Tuesday	Wednesday	Thursday								
Weight (tons)	2	1 ½	½	2 ½								