# JAMHURI YA MUUNGANO WA TANZANIA
# BARAZA LA MITIHANI
# MTIHANI WA KUMALIZA ELIMU YA MSINGI

**04** **HISABATI**

**Muda: Saa 2:00** **Jumatano, 10 Septemba 2014 asubuhi**

**Maelekezo**

1. Karatasi hii ina sehemu A, B na C zenye maswali **hamsini (50).**
2. Jibu maswali **yote** katika kila sehemu.
3. Soma maelekezo yote yaliyoko katika **karatasi maalum (OMR)** ya kujibia na kujaza taarifa zote.
4. Andika **Namba yako ya Mtihani** kisha **weka kivuli** kwenye tarakimu za namba hiyo mahali panapohusika kwenye karatasi yako ya kujibia.
5. Kokotoa kila swali na kisha **weka kivuli** kwenye herufi ya jibu lililo sahihi kwa kila swali katika karatasi yako ya kujibia uliyopewa, kwa mfano kama jibu sahihi ni A weka kivuli kama ifuatavyo:

| ~~[A]~~ | [B] | [C] | [D] | [E] |
|---|---|---|---|---|

6. Ukigundua kuwa herufi uliyowekea kivuli **si jibu sahihi** futa kivuli hicho kwa umakini kwa kutumia **kifutio safi** kabla ya kuweka kivuli katika herufi mpya.
7. Tumia penseli ya **HB** tu.
8. Simu za mkononi na vikokotozi **haviruhusiwi** ndani ya chumba cha mtihani.



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## SEHEMU A: MATENDO YA KIHISABATI

Katika swali la 1 – 25, kokotoa swali ulilopewa na kisha **weka kivuli kwenye herufi ya jibu lililo sahihi** katika karatasi yako ya kujibia.

| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 1. | $0.0027 \div 0.3 =$<br>A 0.009 B 0.09 C 0.9<br>D 9 E 90. | |
| 2. | $5{,}103 - 978 =$<br>A 4,125 B 4,135 C 4,225<br>D 4,235 E 4,025. | |
| 3. | $345 \times 25 =$<br>A 7,625 B 7,505 C 8,605<br>D 8,525 E 8,625. | |
| 4. | $7\frac{1}{4} \times 2\frac{1}{4} =$<br>A $14\frac{3}{16}$ B $16\frac{5}{16}$ C $16\frac{6}{16}$<br>D $16\frac{7}{16}$ E $14\frac{1}{16}$. | |
| 5. | $(^{-}24) - (^{-}10) =$<br>A $^{-}14$ B $^{-}4$ C 34<br>D $^{+}14$ E $^{-}34$. | |



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| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 6. | $(^{-}18)\times(^{-}18)=$<br>A $^{-}324$ B $^{-}264$ C $^{+}324$<br>D $^{+}264$ E $^{+}234$. | 18 × 18 = 324 |
| 7. | $42.092+31.572=$<br>A 73.164 B 73.264 C 74.164<br>D 74.264 E 73.664. | 42.092 + 31.572 = 73.664 |
| 8. | $9\frac{2}{7}-6\frac{1}{5}+1\frac{1}{2}=$<br>A $4\frac{1}{2}$ B $4\frac{41}{70}$ C $4\frac{1}{70}$<br>D $4\frac{40}{70}$ E $4\frac{1}{3}$. | $9\frac{2}{7}-6\frac{1}{5}=\frac{35-7}{35}=\frac{33}{35}$<br>$\frac{33}{35}+1\frac{1}{2}=4\frac{61+2}{70}=4\frac{8}{70}$ |
| 9. | $(2\frac{1}{6}-1\frac{5}{8})\div 2\frac{5}{8}=$<br>A $\frac{13}{63}$ B $\frac{3}{63}$ C $\frac{13}{81}$<br>D $\frac{15}{63}$ E $\frac{15}{81}$. | $\frac{13}{6}-\frac{9}{8}=\frac{41}{24}\div\frac{21}{8}=\frac{8}{21}$ |
| 10. | 15,614 – T =14,659. Thamani ya T ni<br>A 855 B 955 C 1055<br>D 965 E 1065 | 15614 − 14659 = 955<br>15615 − 14659 = 956<br>14659 + 956 = 15615 |



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| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 11. | $2.3 \times 0.48 \times 1.05 =$<br>A 1.0542 B 1.1382 C 1.1544<br>D 1.1592 E 1.656. | |
| 12. | g mg<br>13 640<br>−7 750<br><br>A g 5 mg 890 B g 6 mg 890<br>C g 6 mg 110 D g 6 mg 990<br>E g 5 mg 990. | |
| 13. | (Siku 9 saa 7) × 6 =<br>A siku 55 saa 18 B siku 54 saa 42<br>C siku 57 saa 06 D siku 53 saa 18<br>E siku 58 saa 02. | |
| 14. | Ikiwa $x : y = 2.5 : 6.5$, tafuta $y$ iwapo $x = 1.5$.<br>A 3.73 B 3.90 C 4.90<br>D 9.75 E 10.00. | |
| 15. | Tafuta asilimia 5 ya 5.<br>A 0.05% B 2.5% C 25%<br>D 1.00% E 0.25%. | |



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| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 16. | Badili 0.0011 kuwa asilimia.<br>A 11% B 110% C 0.011%<br>D 0.11% E 1.1 %. | 11% |
| 17. | Rahisisha $2\frac{1}{2}\%$ kuwa sehemu rahisi.<br>A $\frac{1}{400}$ B $\frac{1}{48}$ C $\frac{1}{40}$<br>D $\frac{5}{2}$ E $\frac{5}{200}$. | $\frac{2\frac{1}{2}}{100} \times 100 \quad \frac{5}{200}$<br>$5\overline{)200}$ 40 20 0 0 |
| 18. | Tafuta thamani ya $x$ katika mlinganyo ufuatao:<br>$6x-\frac{3}{2}x=18$<br>A 2 B 6 C $\frac{12}{5}$<br>D 4 E $\frac{6}{5}$. | $\frac{6x}{1} - \frac{3}{2} \cdot \frac{3}{1} = 18$<br>$\frac{0}{0}$ 4 |
| 19. | Tafuta hisa ikiwa kigawanyo ni 203 na kigawanye ni 70,035.<br>A 335 B 343 C 345<br>D 347 E 435. | $203\overline{)70035}$ 2<br>436<br>$203 \times 4 = 858$<br>$203 \times 2 = 436$ |



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| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 20. | Andika saa 8.20 usiku katika mtindo wa saa 24.<br>A 0220 B 1020 C 1620<br>D 2020 E 0820. | |
| 21. | Tafuta namba inayofuata kwenye mwandamo: 24, 27, 31, 36, ...<br>A 40 B 41 C 42<br>D 43 E 46. | |
| 22. | Ikiwa a = −2 na b = 3; tafuta thamani ya $\frac{a^2b-2ab}{ab+a}$.<br>A −3 B 3 C −4<br>D 6 E 0. | |
| 23. | Tafuta wastani wa namba zifuatazo: 105, 125, 145, 140 na 135.<br>A 125 B 130 C 135<br>D 145 E 120. | |
| 24. | Zidisha saa 7 na dakika 45 kwa 9. (Andika jibu katika dakika)<br>A 4125 B 4205 C 4175<br>D 4215 E 4185. | |



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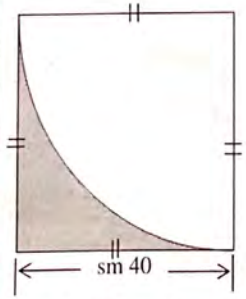
| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 25. | Andika namba ya kirumi MCLXVI kwa namba ya kawaida.<br>A 1116 B 1146 C 1166<br>D 1164 E 1516. | |

## SEHEMU B: MAUMBO

Katika swali la 26 – 38, ainisha mahitaji ya swali, kokotoa jibu na kisha **weka kivuli kwenye herufi ya jibu lililo sahihi** katika karatasi yako ya kujibia.

| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 26. | Tafuta eneo la sehemu yenye kivuli katika umbo lifuatalo. (Tumia $\pi = 3.14$).<br>  <br><br>A $sm^2$ 244 B $sm^2$ 324 C $sm^2$ 344<br>D $sm^2$ 354 E $sm^2$ 444. | 3.14<br>40<br>000<br>1256<br>125.60 |



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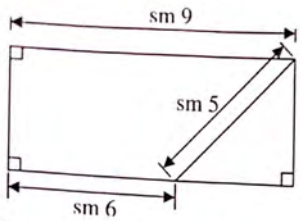
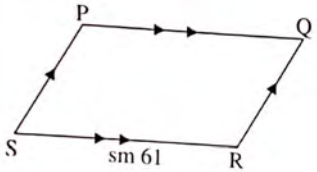
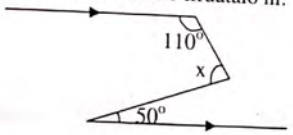
| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 27. | Tafuta eneo la umbo lifuatalo:<br>  <br><br>A $sm^2$ 30 B $sm^2$ 36<br>C $sm^2$ 45 D $sm^2$ 54<br>E $sm^2$ 20. | |
| 28. | Eneo la msambamba PQRS ni $sm^2$ 488. Tafuta kimo chake.<br>  <br><br>A sm 4 B sm 16 C sm 7<br>D sm 11 E sm 8. | |
| 29. | Thamani ya $x$ katika umbo lifuatalo ni:<br>  <br><br>A 120° B 160° C 50°<br>D 70° E 60°. | $110+50x=180$<br>$50$ $-160$<br>$160$ $20$<br>$360$<br>$-160$<br>$200$ $160 \overline{)180}$ $1$<br>$160$<br>$20$<br>$160x=180$<br>$160$ $160$<br>$x=$<br>$110$<br>$50$<br>$160$<br>$20$<br>$140$ |



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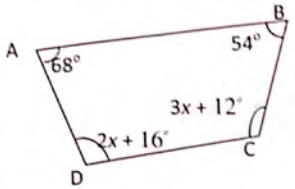
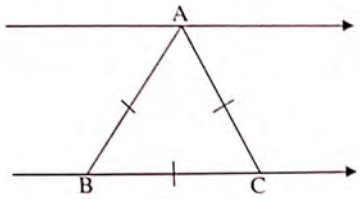
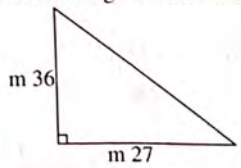
| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 30. | Tafuta thamani ya $x$ katika umbo lifuatalo:<br>  <br><br>A 35° B 40° C 42°<br>D 44° E 45°. | $2x+16+3x+12+54+68$<br>$2x+3x=5$<br>$5x=150$<br>$\frac{150}{5}$ |
| 31. | Jina la umbo ABC katika mchoro ufuatao ni<br>  <br><br>A pembetatu sawa B pembetatu pacha<br>C pembetatu mraba D pembetatu guni<br>E pembetatu sambamba. | |
| 32. | Tafuta mzingo wa umbo lifuatalo:<br>  <br><br>A m 45 B m 63 C m 108<br>D m 118 E m 486. | |



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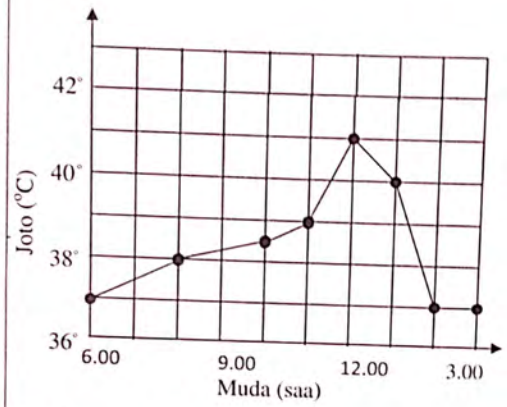
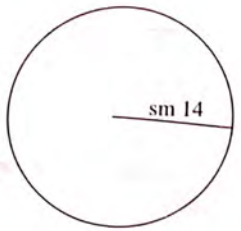
| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 33. | Grafu ifuatayo inaonesha maendeleo ya homa ya Mariana tangu alipofikishwa hospitalini kwa matibabu saa 6.00. Je, ilimchukua muda wa saa ngapi Mariana kuanza kupata nafuu?<br>  <br><br>A 3 B 4 C 6<br>D 12 E 9. | |
| 34. | Tafuta eneo la duara lifuatalo.<br>(Tumia $\pi = \frac{22}{7}$)<br>  <br><br>A $sm^2$ 606 B $sm^2$ 616 C $sm^2$ 516<br>D $sm^2$ 526 E $sm^2$ 626. | |



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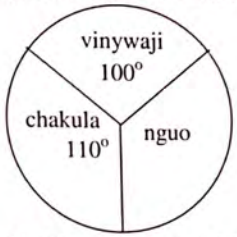
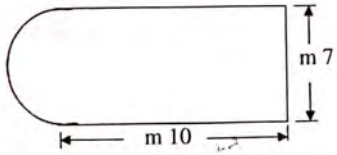
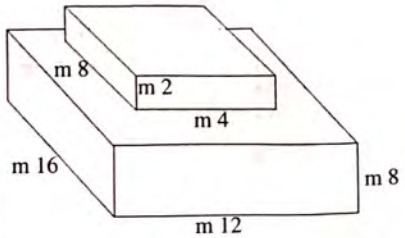
| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 35. | Jack alitumia sh. 48,000 kununua vinywaji, nguo na chakula. Kwa kutumia grafu kwa duara ifuatayo, ni kiasi gani cha fedha kilitumika kununulia nguo?<br>  <br><br>A sh. 24,000 B sh. 28,000<br>C sh. 20,000 D sh. 40,000<br>E sh. 48,000. | |
| 36. | Tafuta eneo la umbo lifuatalo.<br>(Tumia $\pi = \frac{22}{7}$).<br>  <br><br>A $m^2$ 70.0 B $m^2$ 79.25 C $m^2$ 79.75<br>D $m^2$ 89.25 E $m^2$ 108.5. | |
| 37. | Tafuta ukubwa wa umbo lifuatalo:<br>  <br><br>A $m^3$ 1536 B $m^3$ 1552 C $m^3$ 1600<br>D $m^3$ 1920 E $m^3$ 1472. | |



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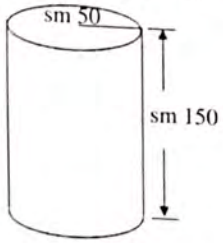
| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 38. | Tafuta ujazo wa mcheduara ufuatao katika lita.<br>(Tumia $\pi = 3.14$, lita 1 = $sm^3$ 1000)<br>  <br><br>A 117.75 B 392.50 C 785.0<br>D 1170.50 E 1177.50. | |

## SEHEMU C: MAFUMBO

Katika swali la 39 – 50, ainisha mahitaji ya swali, kokotoa jibu na kisha **weka kivuli kwenye herufi ya jibu lililo sahihi** katika karatasi yako ya kujibia.

| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 39. | Kazimoto alinunua maembe kwa sh.5,000 na kuyauza kwa sh.6,000. Tafuta asilimia ya faida iliyopatikana.<br>A 16.7 B 20 C 30<br>D 40 E 83. | |
| 40. | Amani alinunua vitu vifuatavyo: mifuko 2 ya sukari @ 25,000/=, doti 3 za kanga @ 5,000, vikombe dazeni 2 @ 2,800 na viazi kilo 10. Ikiwa alilipa jumla ya sh.91,000, bei ya kilo moja ya viazi ni shilingi ngapi?<br>A sh. 2,040 B sh. 2,400 C sh. 2,140<br>D sh. 204 E sh. 1,040. | 2×25000 410000<br>25000 15000<br>2 5600<br>50000 60600<br>3×15000 2×2800<br>2<br>606 91000 5600<br>-60600<br>30400 |



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| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 41. | Bustani yenye ukubwa wa hekta $5\frac{1}{4}$ iligawanywa katika vitalu vya ukubwa wa hekta 0.25 kila kimoja. Je, vilipatikana vitalu vingapi?<br>A 15 B 20 C 25<br>D 21 E 30. | |
| 42. | Karina alitumia $\frac{1}{3}$ ya mshahara wake kwa chakula, $\frac{1}{4}$ kwa ada za shule na $\frac{1}{5}$ kwa mahitaji mengine na kubakiwa na sh.13,000. Je, mshahara wake kwa mwezi ulikuwa ni shilingi ngapi?<br>A sh. 60,000 B sh. 65,000<br>C sh. 78,000 D sh. 130,000<br>E sh. 48,750. | |
| 43. | Basi la Maringo Express liliondoka Iringa saa 12.00 asubuhi kuelekea Dar es Salaam umbali wa km 640. Ikiwa lilisafiri kwa wastani wa mwendo wa km 80 kwa saa, lilifika Dar es Salaam saa ngapi? (Andika jibu kwa mpango wa saa 24).<br>A 2400 B 2000 C 0200<br>D 0800 E 1400. | |
| 44. | Kawemba alikuwa na salio la sh. 10,000 kwenye simu yake ya kiganjani. Alituma ujumbe mmoja mfupi kwa marafiki zake watatu kwa gharama ya sh 150 kila ujumbe. Je, katika simu yake alibakiwa na kiasi gani cha fedha?<br>A sh. 9,850 B sh. 9,950 C sh. 9,700<br>D sh. 9,550 E sh. 9,055. | |



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| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 45. | Hospitali ya Kagondo ina chakula cha kuwatosha wagonjwa 60 kwa siku 10. Iwapo wataongezeka wagonjwa 40 zaidi, chakula hicho kitatosheleza kwa siku ngapi?<br>A 3 B 4 C 6<br>D 5 E 7. | |
| 46. | Mama Bwere aliweka sh.300,000 katika akaunti ya benki ya akiba inayotoa kiasi cha riba ya $7\frac{1}{2}$% kwa mwaka. Je, itamchukua muda wa miaka mingapi kupata faida ya sh.45,000?<br>A 1 B $\frac{2}{5}$ C 3<br>D 4 E 5. | |
| 47. | Rahel alitoa punguzo la asilimia 25 kwa bidhaa zote dukani mwake. Je redio iliyokuwa ikiuzwa sh. 100,000 kabla ya punguzo, bei yake ya sasa ni shilingi ngapi?<br>A 7,500 B 25,000 C 75,000<br>D 125,000 E 175,000. | |
| 48. | Shamba la ufugaji kuku la Kamunonge liliuza kuku 1995 kwa sh.3,990,000. Je, bei ya wastani kwa kuku mmoja ilikuwa shilingi ngapi?<br>A 1,500 B 2,250 C 2,500<br>D 1,800 E 2,000. | |
| 49. | Bwana Sakieli alikuwa na vitalu 45 kwa ajili ya kupanda miche 10,350 ya matunda. Alipanda kiasi sawa cha miche katika kila kitalu. Je, kila kitalu kilipandwa miche mingapi?<br>A 230 B 220 C 203<br>D 234 E 245. | |



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| NA | SWALI | SEHEMU YA KAZI |
|---|---|---|
| 50. | Shukuru alifanya majaribio matano katika maandalizi ya Mtihani wa Kumaliza Elimu ya Msingi 2011 na kupata wastani wa alama 63. Ikiwa alama za majaribio manne zilikuwa 54, 48, 78 na 60, je alama za jaribio la tano zilikuwa ngapi?<br>A 48 B 60 C 61<br>D 65 E 75. | 54<br>48<br>102<br>72<br>174<br>60<br>234<br>4 ) 234<br>16 |



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