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

04

HISABATI

Muda: Saa 2:00

Jumatano, 07 Septemba 2016 asubuhi

Maelekezo

- 1. Karatasi hii ina sehemu A, B na C zenye maswali hamsini (50).
- Jibu maswali yote katika kila sehemu.
- Soma maelekezo yote yaliyoko katika karatasi maalum ya kujibia (OMR) na kujaza taarifa zote.
- Andika namba yako ya mtihani kisha weka kivuli kwenye tarakimu za namba hiyo mahali panapohusika kwenye karatasi yako ya kujibia.
- 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:

EA-3 [B] [C] [D] [E]

- 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 | ٠ | SWALI | ,1 | SEHEMU YA KAZI |
|----|---|----------------------|-------------------|----------------|
| 1. | 95+678+9, | .095 = | | gate, I to a |
| | A 9,868 D 9,768 | | C 9,668 | |
| 2. | 90,115 - 73, | 906 = | 5 6 | 7 |
| | A 17,209 D 17,219 | B 16,219 E 16,119 | C 16,209 | |
| | | | | |
| 3. | 130.2 ÷ 62 = | | | 1.1.2 |
| | A 2.19 D 2.20 | B 2.02 E 2.10 | C 2.01 | |
| | | | | |
| 4. | 59×447 = A 26,373 D 24,303 | | C 26,213 | |
| | | | | |
| 5. | $6\frac{2}{3} + 1\frac{3}{4} =$ | | W | |
| | A $8\frac{12}{17}$ | B $7\frac{5}{12}$ | $C 7\frac{6}{12}$ | |
| | $6\frac{2}{3} + 1\frac{3}{4} =$ A $8\frac{12}{17}$ D $7\frac{5}{7}$ | $E = 8\frac{5}{12}$ | | - t- |
| | | | | |
| | | | | |

Ukurasa wa 2 kati ya 15

| NA | SWAL | ı | SEHEMU YA KAZI |
|-----|--|---------|----------------|
| 6. | $4\frac{2}{5} - 3\frac{1}{2} =$ A $1\frac{1}{10}$ B $1\frac{1}{3}$ D $-\frac{1}{10}$ E $\frac{1}{10}$ | S 10 | |
| 7 | -12×(-17+21) = A -16 B48 D -45 E 45 | C 48 | |
| 8. | (*19)+(*39)= A 58 B 48 D 20 E -20 | C -58 | |
| 9. | $3\frac{1}{4} \div 1\frac{1}{3} =$ A $\frac{13}{4}$ B $\frac{39}{16}$ D $3\frac{1}{12}$ E $\frac{13}{3}$ | C 39/4 | |
| 10. | 3,105÷15 = A 27 B 207 D 370 E 271 | C 270 . | |
| | | | |

DWKEW-7P

Ukurasa wa 3 kati ya 15

| NA | CWALL | SEHEMU YA KAZI |
|-----------|--|-----------------------|
| | SWALI | SEHEMO |
| 11. | 10.3×1.4= | |
| | A 10.12 B 11.7 C 10.314 | |
| | D 14.42 E 4.12 | |
| | | |
| | | |
| | | |
| | | |
| 12. | 19.62 + 6.35 + 21.1 = | |
| | A 37.07 B 46.07 C 46.98 | |
| | D 47.07 E 36.98 | |
| | | |
| | | 1 7 7 7 8 18 18 18 18 |
| | | |
| 13. | N | |
| 7,702 | Ikiwa M = -65 na N = (+5), tafuta $\frac{N}{M}$. | |
| | 1 1 13 | |
| | $A = \frac{1}{13}$ B $\frac{1}{13}$ C $\frac{13}{1}$ | |
| | -13 1 | |
| | $D = \frac{1}{103}$ | |
| | | |
| | | |
| 14. | Kokotoa thamani ya (-17) – 46 + (7×9) | 125.463 / 62 |
| | A -63 B 63 C 70 | -17-17-63-63 |
| | D 79 E 0 | -17+63-63 |
| | | 1 |
| | | |
| | | |
| 15. | Kuna namba witiri ngapi kati ya 6 na 30. | |
| especial. | | |
| | A 25 B 23 C 12 | |
| | D 11 E 7 | |
| | | |
| | | |
| | | |
| | | |
| | | |

Ukurasa wa 4 kati ya 15

SMKEN-16

| NA | SWALI | SEHEMU YA KAZI |
|-----|--|---|
| 16. | Tafuta Kigawo Kikubwa cha Shirika (K.K.S) cha 18, 24 na 30. A 1 B 2 C 3 D 5 E 6 | |
| 17. | Andika 0.85 katika asilimia. A 0.85% B 8.5% C 5.8% D 58% E 85% | = 857° 057° |
| 18. | Rahisisha $7(3-2x)-(25-x)$. A $-4+13x$ B $-4-13x$ C $4-13x$ D $46-14x$ E $-14x-46$ | 21-23) 113-13-13-13-13-13-13-13-13-13-13-13-13- |
| 19. | Tafuta jumla ya namba tasa zilizopo kati ya 36 na 42. A 78 B 117 C 195 D 156 E 273 | |
| 20. | Kuna $1\frac{1}{2}$ ngapi katika $\frac{21}{2}$? A 1 B $15\frac{3}{4}$ C 9 D 7 E 12 | |

DWKEW-JP

Ukurasa wa 5 kati ya 15

| NA | SWALI | SEHEMU YA KAZI |
|-----|--|--|
| 21. | Andika kwa kirumi namba 1,694. | |
| | A MCDXCIV | |
| | B MCDCXIV | |
| | C MDCXCVI | · · · · · · · · · · · · · · · · · · · |
| | D MDCIXCV | |
| | E MDGXCIV | |
| | | |
| | | |
| | · 自己的 · 图 · 图 · 图 · 图 · 图 · 图 · 图 · 图 · 图 · | |
| | | |
| | | |
| 22. | A-dilector in the control of the con | |
| 22. | Andika namba inayofuata katika mfululizo | |
| | huu: -12, -9, -3. 6, A 9 B 12 C 15 | |
| | D 18 E 21 | St. company |
| | 3 10 21 | |
| | | |
| | | |
| | | |
| | | |
| | | |
| 23. | Ipi siyo namba tasa kati ya namba hizi | |
| | zifuatazo: | |
| | 43, 47, 51, 53 na 59. | |
| | A 47 B 51 C 53 | THE PARTY OF THE P |
| | D 43 E 59 | |
| | | |
| | | AL PARAMETER AND A STATE OF THE |
| | | |
| | | |
| 24 | 210/ | |
| 24. | Badili $2\frac{1}{2}\%$ kuwa desimali. | |
| | A 2.5 B 0.25 C 0.125 | |
| | D 0.215 E 0.025 | |
| | | Para Para Para Para Para Para Para Para |
| | | |
| | | |
| | | Nema- |
| | | |
| | | |

Ukurasa wa 6 kati ya 15

| NA | SWALI | SEHEMU YA KAZI |
|-----|-------------------------------|------------------------------|
| 25. | Zidisha m 9 sm 15 mm 7 kwa 8. | The world have been a second |
| | A m 72 sm 25 mm 6 | |
| | B m 72 sm 25 mm 56 | |
| | C m 72 sm 20 mm 6 | |
| | D m 73 sm 25 mm 6 | |
| | E m 73 sm 25 mm 56 | |

SEHEMU B: MAUMBO

Katika swali la 26 – 38, kokotoa swali ulilopewa na kisha wek<mark>a kivuli kwenye herufi ya jibu lililo sahihi</mark> katika karatasi yako ya kujibia.

| NA | SWALI | SEHEMU YA KAZI |
|-----|---|----------------------------------|
| 26. | Eneo la trapeza PQRS ni sm² 108. Tafuta urefu wa RS. | 17 1-108 17 1-108 17 1-108 |
| | A, sm 11 B sm 16 C sm 24 D sm 44 E sm 64 | 40-41 D MALE 1-00 |
| 27. | Tafuta kipenyo AB cha duara lifuatalo lenye eneo la sm² 2,464. (Tumia $\pi = \frac{22}{7}$). | 141 - 14 3 M |
| | A sm 22 B sm 28 C sm 32 D sm 56 E sm 88 | |

BWKEW-1P

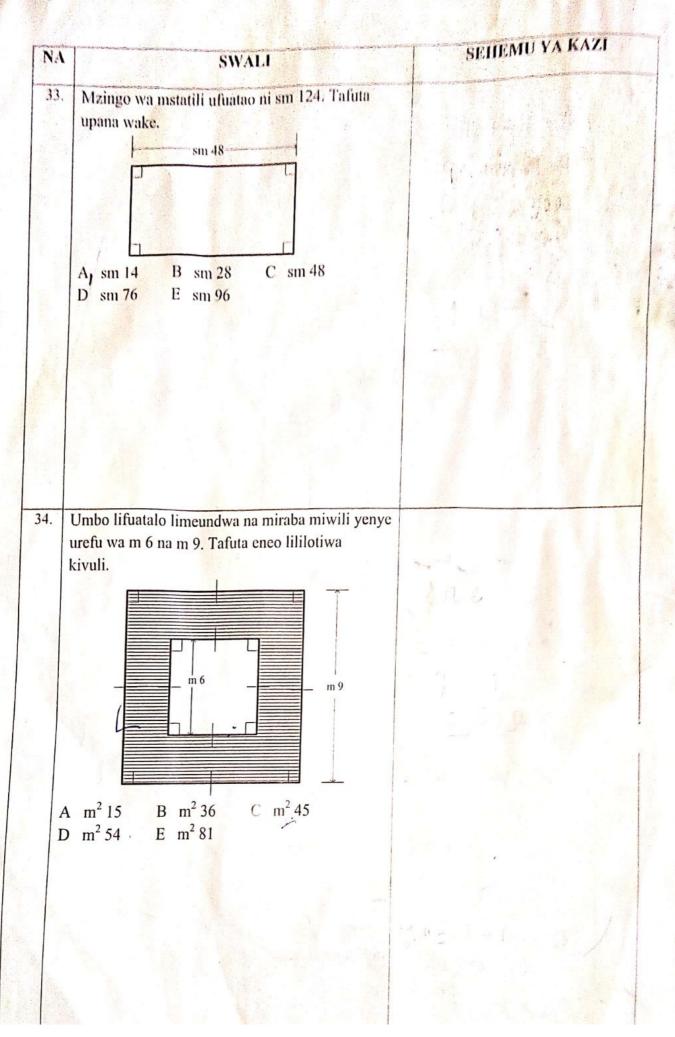
Ukurasa wa 7 kati ya 15

| NA | SWALI | SEHEMU YA KAZI |
|------|--|--|
| 28. | Tafuta eneo la sehemu iliyotiwa kivuli katika | |
| -0. | rafuta eneo la sehemu iliyofiwa kivun kum | A CONTRACTOR OF THE STATE OF TH |
| | umbo lifuatalo: | |
| | | |
| | \$17.70 | |
| | st la se | |
| | | |
| | | |
| | 20 sm 36 | |
| i w | A sm ² 150 | of many |
| 7 | B sm ² 250 | |
| | $C \sin^2 270$ | 71.3, 2.3, 34, 34, -3 |
| | D sm ² 375 | |
| 1 | E sm ² 420 | |
| 1 | 120 | |
| | | |
| 29. | Tofuto ones la la companie | |
| 29. | Tafuta eneo la bustani ifuatayo ikiwa pembe | |
| | zake zote ni pembe mraba. | |
| | m 16 ——— | |
| | m 4 | |
| 1 | m 4 | |
| | m 12 | |
| | | |
| | | |
| | | |
| | <u>m</u> 8 → | |
| A | | |
| D | $m^2 160$ E $m^2 128$ | |
| 4 | 2 * 1 1 | |
| | | |
| . Ta | ifuta ukubwa wa pembe ABC katika umbo | |
| | uatalo: | |
| 1 | Α | |
| | | |
| | 2x | |
| | | |
| | | |
| | (3x-10) $(x+10)$ | |
| | B | |
| A | 30 B 80 C 60 | |
| 1 | 40 E 90 | |
| י ען | 40 E 20 | |
| | | |
| 1 | | |

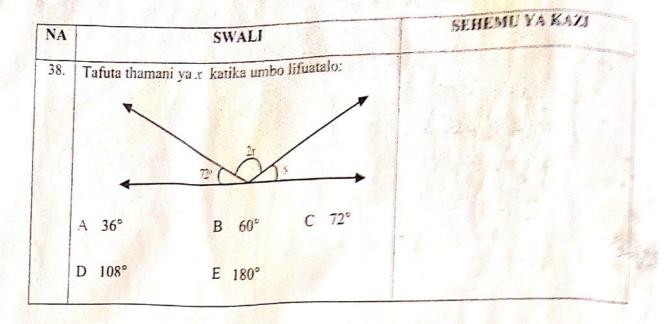
Ukurasa wa 8 kati ya 15

| Taja majira ya nukta M katika grafu ifuatayo: A 10 B 15 C 20 D 80 B 90 Taja majira ya nukta M katika grafu ifuatayo: A (3, 2) B (2, 3) S (-3, 2) | in | SWALL | SEHEMU YA KAZI |
|---|----------|---|----------------|
| Taja majira ya nukta M katika grafu ifuatayo: y A (3, 2) B (2, 3) C (-3, 2) | <u> </u> | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | |
| A (3, 2) B (2, 3) C (-3, 2) | | | |
| A (3, 2) B (2, 3) C (-3, 2) | | M v | |
| D (2,-3) E (3,0) | | (3, 2) B (2, 3) C (-3, 2) | |

Ukurasa wa 9 kati ya 15



| NA | SWALI | SEHEMU YA KAZI |
|-----|--|----------------|
| | Tafuta ujazo wa mcheduara ufuatao katika lita. (Tumia $\pi = \frac{22}{7}$, Lita $1 = \text{sm}^3 1,000$) A 264 B 462 C 4,620 D 8,400 E 1,848 | |
| 36. | Iwapo uso ABCD wa mche mstatili ufuatao uko wazi, tafuta jumla ya eneo la nyuso zilizobaki. | MS S |
| | A sm² 536 D sm² 712 E sm² 1,056 Mazao yaliyovunwa katika mkoa mmoja nchini Tanzania yameoneshwa kwa kutumia grafu kwa duara kama ifuatavyo: Karanga Mtama Karanga Mtama Mtama Mtama Mtama Mtama Mtama Mahinda | |
| | Ikiwa zilivunwa jumla ya tani 96,000, je zao la mtama lilivunwa tani ngapi? (Andika jibu katika maelfu yaliyo karibu). A 9,600 B 12,000 C 16,000 D 18,000 E 40,000 | |



SEHEMU C: MAFUMBO

Katika swali la 39 – 50. kokotoa swali ulilopewa na kisha weka kivuli kwenye herufi ya jibu lilila sahihi katika karatasi yako ya kujibia.

| NA | SWALI | SEHEMU YA KAZI |
|-----|---|----------------|
| 39. | Mariana alipata wastani wa alama 60 katika majaribio manne ya somo la Hisabati. Ikiwa alama za majaribio matatu zilikuwa 70, 60 na 50, tafuta alama za jaribio la nne. A 240 B 60 C 180 D 70 E 50 | |
| 40. | Kapilima alinunua vitu vifuatavyo kwa ajili ya matumizi ya nyumbani: Vikombe 6 @ sh 2,500 | |
| | Sufuria 3 @ sh 7,500 Sahani 12 @ sh 4,500 | |
| | Vijiko dazeni mbili na kila kijiko sh 800 Je, ikiwa alitoa noti 11 za thamani ya shilingi elfu kumi kila moja na noti moja ya shilingi elfu moja | |
| l f | kwa muuza duka, alirudishiwa kiasi gani cha fedha? | |
| 1 | A 1,000/= B 700/= C 300/= D 9,900/= E 8,900/= | |

Ukurasa wa 12 kati ya 15

| NA | SWALI | SEHEMU YA KAZI |
|-----------|---|----------------|
| 41- | Eneo la kiwanja chenye umbo la mstatili ni m² 130. Ikiwa urefu wake ni sm 1,300, tafuta mzingo wa kiwanja hicho. A 13 m B 23 m C 26 m D, 46 m E 66 m | |
| +42. | Ester ana miaka 12 pungufu ya umri wa Asha. Ikiwa jumla ya miaka yao ni 70, tafuta umri wa Ester. A 12 B 29 C 41 D 58 E 82 | |
| 43. | Asilimia 75 ya wanafunzi wa shule ya msingi Azimio walifanya jaribio la Hisabati. Iwapo wanafunzi 360 walifanya jaribio la Hisabati, je, shule hiyo ina wanafunzi wangapi? A 360 B 120 C 435 D 275 E 480 | |
| 44. | Ofisi ya walimu ina urefu wa meta 6 na upana wa meta 4. Kamati ya Ujenzi ya Shule ilipanga kuweka vigae katika sakafu ya ofisi hiyo. Iwapo kila kigae kina eneo la mraba m² 0.5, je, Kamati ya Ujenzi ya Shule itanunua vigae vingapi kujaza sakafu hiyo? A 24 B 48 C 12 D 10 E 6 | |

OWKEM- JP

Ukurasa wa 13 kati ya 15

| The order | NA | 0.00.10 | SEHEMU YA KAZI |
|--|-----|---|----------------|
| | | | |
| The state of the s | 45 | Juma na Fatma waligawana sh 6,750,000. Fatuma alipata mara nne ya kiasi cha Juma. Je, Juma alipata kiasi gani cha fedha? 'A 1,350,000/= B 1,687,500/= C 3,375,000/= D 5,400,000/= E 6,750,000/= | |
| 一年の日の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日 | 46. | Maguga alisafiri umbali wa kilometa 240 kwa gari. Ikiwa alisafiri kwa mwendokasi wa kilometa 80 kwa saa; Je, alitumia muda gani? A saa 3 B saa 4 C saa 5 D saa 6 E saa 8 | |
| A AND DESCRIPTION OF THE PROPERTY OF THE PARTY OF THE PAR | | | |
| | 47. | Doto alinunua viazi na akaviuza kwa shilingi 15,000. Ikiwa alipata hasara ya 20%, tafuta bei aliyonunulia. A 3,000/= B 12,000/= C 15,000/= D 18,000/= • E 18,750/= | |
| | 48. | Pande mbili sambamba za umbo la trapeza zina urefu wa sm 2x na sm 3x. Ikiwa kimo cha trapeza hiyo ni sm 8, tafuta mtajo unaowakilisha eneo la trapeza hii. A sm² (5x) B sm² (40x) C sm² (80x) D sm² (20x) E sm² (48x) | |
| | | | |

Ukurasa wa 14 kati ya 15

OMKEN-16

| NA | SWALI | SEHEMU YA KAZI |
|-----|--|----------------|
| 49. | Nusu ya mshahara anaolipwa Joel hutumika kununulia chakula na robo ya mshahara wake hutumika kulipia kodi mbalimbali. Ikiwa hubakia na shilingi 300,000, je mshahara wake ni shilingi ngapi? A sh. 300,000 B sh. 600,000 C sh. 1,200,000 D sh. 400,000 E sh. 800,000. | |
| 50. | Bomba tano zenye unene sawa hujaza pipa la maji kwa dakika 40. Ikiwa bomba nne tu zitatumika, pipa hilo litajaa katika muda wa dakika ngapi? A 20 B 50 , C 40 D 160 E 200 | |