

HALMASHAURI YA JIJI LA ARUSHA

MTIHANI WA KUJISOMEA NYUMBANI KWA DARASA LA SABA 2020

SOMO: HISABATI

Muda: Saa 2:00

JUNI 2020

MAELEKEZO

1. Karatasi hii ina sehemu A, B, C na D zenye jumla ya maswali **arobaini na tano (45)**
2. Jibu maswali **yote** katika kila sehemu.
3. Andika **jina lako, shule na somo kwa usahihi katika karatasi yako ya kujibia.**

SEHEMU A: MATENDO YA KIHISABATI, MAUMBO NA MAFUMBO
Katika swali la 1-40, kokotoa swali ulilopewa na kisha weka kivuli
kwenye herufi ya jibu lililo sahihi katika fomu yako ya kujibia

1. $9238 + 356884 =$
A. 227064 B. 45021 C. 54012 D. 460311 E. 366122
2. $31122 - 392 =$
A. 30720 B. 310730 C. 30738 D. 2922 E. 30730
3. $69334 \times 3 =$
A. 207007 B. 20888 C. 908002 D. 200802 E. 208002
4. $39130 \div 13 =$
A. 3010 B. 310 C. 3001 D. 30100 E. 31001
5. $3 \frac{1}{4} + 9 \frac{3}{8} =$
A. $11 \frac{1}{8}$ B. $12 \frac{3}{8}$ C. $12 \frac{5}{8}$ D. $12 \frac{4}{8}$ E. $10 \frac{4}{8}$
6. $15 \frac{1}{2} - 10 \frac{1}{5} =$
A. $4 \frac{7}{10}$ B. $51 \frac{4}{10}$ C. $5 \frac{3}{10}$ D. $25 \frac{3}{10}$ E. $4 \frac{3}{10}$
7. $15 \frac{5}{7} \div 2 \frac{2}{7} =$
A. 5 B. 6 C. $24 \frac{24}{49}$ D. $\frac{1}{6}$ E. $\frac{2}{5}$
8. $8 \frac{1}{4} \times 3 \frac{2}{3} =$
A. $3 \frac{1}{4}$ B. $30 \frac{1}{2}$ C. $24 \frac{3}{7}$ D. $30 \frac{1}{4}$ E. $8 \frac{1}{4}$
9. $2.46 \times 1.2 =$
A. 3.92 B. 1.82 C. 4.29 D. 2.952 E. 3.82
10. $28.93 + 10 =$
A. 38.93 B. 29.03 C. 18.93 D. 37.93 E. 39.03
11. $26.9 - 8.24 =$
A. 18.666 B. 1.86 C. 18.66 D. 21.74 E. 28.14
12. $(-66) - 16 =$ A. -82 B. +82 C. -70 D. -50 E. +50
13. Badili 62.5% kuwa sehemu rahisi
(A) $\frac{5}{6}$ (B) $\frac{3}{4}$ (C) $\frac{5}{8}$ (D) $\frac{2}{3}$ (E) $\frac{5}{2}$
14. Badili 0.035 kuwa asilimia
(A) 35% (B) 0.35% (C) 0.035% (D) 0.0035% (E) 3.5%
15. Badili $13 \frac{4}{5}$ kuwa desimali
(A) 13.8 (B) 13.6 (C) 13.4 (D) 13.64 (E) 13.65
16. Andika kwa namba za kawaida MCM + CVIII
(A) 2008 (B) 1993 (C) 1943 (D) 2003 (E) 1998
17. Tafuta zao la namba tasa zilizopo kati ya 12 na 18
(A) 320 (B) 301 (C) 452 (D) 493 (E) 221
18. Jumlisha namba witiri zilizopo kati ya 82 na 90
(A) 344 (B) 340 (C) 304 (D) 384 (E) 302
19. Taja idadi ya namba shufwa zilizopo kati ya 33 hadi 45
(A) 5 (B) 6 (C) 7 (D) 2 (E) 10
20. Tafuta namba mraba ya 69

(A) 4760 (B) 6147 (C) 4761 (D) 6741 (E) 4671

21. Tafuta kipeuo cha pili cha 2601

(A) 41 (B) 51 (C) 59 (D) 86 (E) 79

22. Tafuta KKS cha 12, 24, 36

(A) 6 (B) 12 (C) 24 (D) 36 (E) 72

23. Tafuta KDS cha 6, 9, 12

(A) 3 (B) 36 (C) 54 (D) 72 (E) 108

24. Andika namba inayokosekana katika mfululizo huu 1, 4, ____, 16, 25

(A) 5, (B) 6, (C) 9 (D) 10 (E) 12

25. Iwapo $A = -2$ (b) $+3$ Tafuta thamani ya $\frac{a^2b - 2ab}{ab + a}$

(A) -3 (B) 3 (C) -4 (D) 6 (E) 0

26. Tafuta thamani ya B iwapo $4:B=2:5$

(A) 7 (B) 8 (C) 9 (D) 10 (E) 11

27. Gawanya kg 41 gm 360 kwa 8

(A) kg 5 gm 100 (B) kg 5 gm 170 (C) kg 5 gm 17 (D) kg 51 gm 70
(E) kg 5 gm 171

28. Tafuta wastani wa namba zifuatazo 105, 125, 145, 140, 135

(A) 125 (B) 130 (C) 135 (D) 145 (E) 120

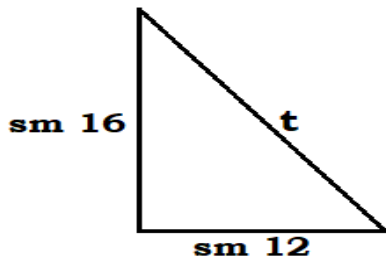
29. Andika saa 8.20 usiku katika mtindo wa saa 24

(A) 0220 (B) 1020 (C) 1620 (D) 2020 (E) 0820

30. $11(P+Q) - 3(P-Q)$ ni sawa na

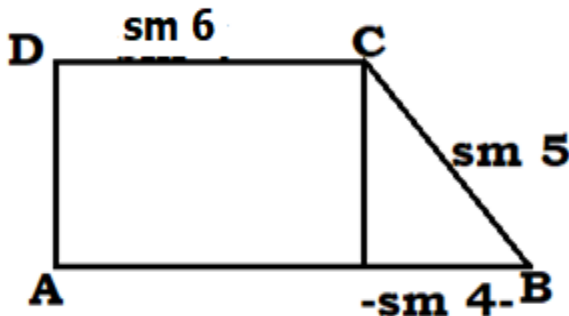
(A) $8p - 14q$ (B) $8p + 14q$ (C) $14p - 14q$ (D) $14q - 8p$ (E) $8p + 8q$

31. Tafuta thamani ya t katika pembe tatu ifuatayo;



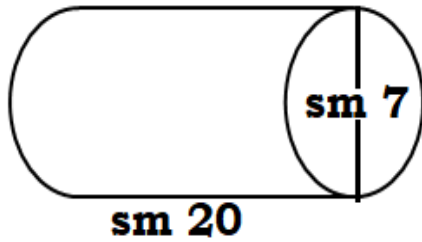
(A) 25 (B) 144 (C) 20 (D) 169 (E) 17

32. Tafuta eneo la trapeza ABCD



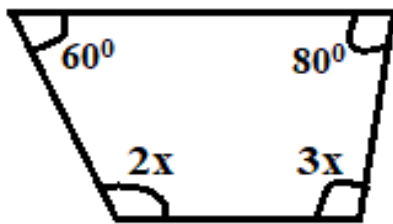
(A) $\text{sm}^2 60$ (B) $\text{sm}^2 72$ (C) $\text{sm}^2 24$ (D) $\text{sm}^2 30$ (E) $\text{sm}^2 36$

33. Tafuta eneo la umbo lifuatalo lililofungwa pande zote



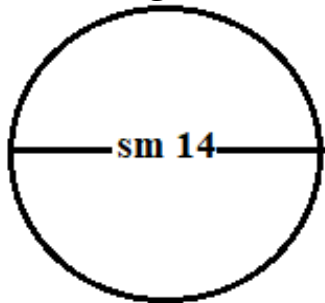
- (A) $\text{sm}^2 77$ (B) $\text{sm}^2 440$ (C) $\text{sm}^2 517$ (D) $\text{sm}^2 880$ (E) $\text{sm}^2 479$

34. Tafuta thamani ya x



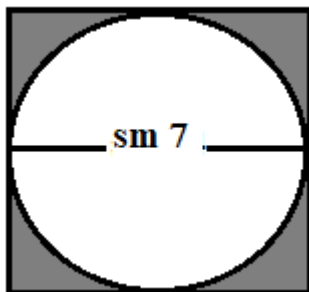
- (A) 20° (B) 30° (C) 40° (D) 44° (E) 45°

35. Tafuta mzingo wa duaara ($\pi = 22/7$)



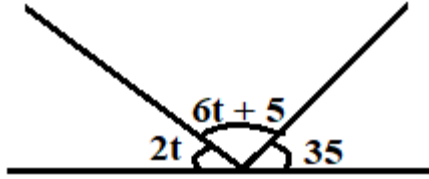
- (A) 88 (B) sm 28 (C) sm 44 (D) sm 76 (E) sm 61

36. Tafuta eneo lililotiwa kivuli. (Tumia $\pi = 22/7$)



- (A) $\text{sm}^2 5$ (B) $\text{sm}^2 8$ (C) $\text{sm}^2 49$ (D) $\text{sm}^2 77$ (E) $\text{sm}^2 10.5$

37. Tafuta thamani ya t ikiwa AB ni mstari mnyoofu



- (A) 80° (B) 30° (C) 35° (D) 70° (E) 20°

38. Juma na Rose waligawana shilingi 15000 katika uwiano wa 11:4. Je Rozi alipata shilingi ngapi?

- (A) sh.9000 (B) sh.10000 (C) sh 5000 (D) sh 11000 (E) sh 4000

39. Tafuta gharama ya kutuma simu ya maandishi yenye jumla ya maneno

34. Ikiwa maneno 20 ya mwanzo ni sh 900 na kila neno linaloongezeka hutozwa sh 70

- (A) sh.1400 (B) sh.2380 (C) sh 880 (D) sh 1480 (E) sh 1880

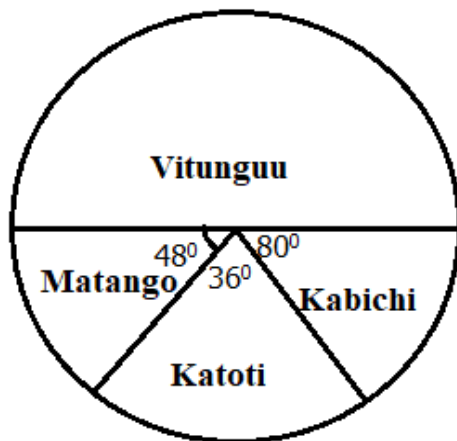
40. Umri wa Baba ni mara tano ya umri wa Mwanaye wa Kiume. Kama jumla ya umri wao ni miaka 120, tafuata umri wa mwanaye.

SEHEMU B

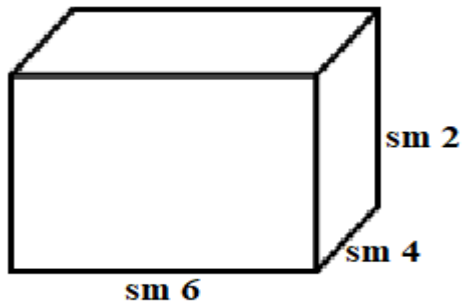
Jibu maswali yote. Onesha njia wazi katika kujibu swali la 41-45

41. Bomba Fulani linauwezo wa kujaza tenki la mche duara lenye nusu kipenyo cha m14 na kimo cha m 6. Tafuta ujazo katika lita lita $1 = \text{sm}^3$ 1000? (Tumia $\pi = \frac{22}{7}$)

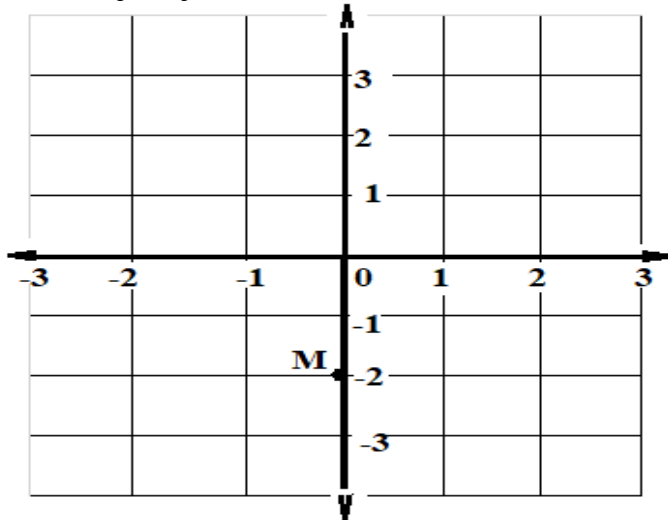
42. Shule ya Msingi Mang'ola walilima shamba la mboga na kuvuna tani 7,200 kama takwimu zinavyoonekana hapo chini. Kokotoa kiasi cha vitunguu vilivyovunwa na kuandika jibu lako katika kilogram.



43. Tafuata eneo la nyuso la umbo lifuatalo



44. Andika majira ya nukta **M** katika mchoro ufuatao



45. Maimuna alinunua penseli 12 @ sh 200, vitabu 8@ sh 250/=, madaftari 20 @ sh 300/= na rula 15 @ sh 50. Kama alikuwa n ash 15,000/= alibakiwa na kiasi gani baada ya kufanya malipo?