

TURNING VIEW 2021

MATHEMATICS





BEAD THESE IN	STRUCTIONS CAREFULLY
You have been given this question paper and a separate a	nswer sheet. The question paper contains 50 questions.
You have been given this question paper and a spect of the Make sure that you have written on the answer sheet	TIME: 2HRS
(1) Manual of your school	
	9. Which of the following sets of measurements
Which one of the following numbers is th	will give a right angled triangle?
million three thousand and thirty?	A. 1.0cm, 2.4cm, 2.6cm
A 3000330 B. 330030	B. 4.2cm, 7.5cm, 8.5cm
C 3003030 D. 30030030	C. 5 5cm, 1.2cm, 5.4cm
. What is the place value of digit 1 in the proc	UCL D 2 5cm 3 5cm 6 5cm
of 380 and 564?	1 10 in the tighte below. At is parallel to -
A. Tens of thousands	angles are marked in letters p, q, r, s.
B. Thousands	Y
C. Hundreds	1 9.0
D Hundreds of thousand	
. Round off 29.324 to the nearest whole num	ber.
A. 30 B. 29.00	
D. 29	
What is the least number than can be adde	ed to
47867 to make it divisible by 11?	
A, 5 B. 3	
C. 4 D. 2	
	git 5 A
5. By how many times is the total value of a more than the total value of digit 2 in the nu	
45328?	$A_{0}p^{0} + r^{0} + s^{0} = 180^{0}$ $B_{0}p^{0} + q^{0} + r^{0} = 100^{10}$
A. 40 B. 250	$c_{r} = 180^{\circ}$ $D_{r} = 180^{\circ}$ $D_{r} = 180^{\circ}$
C. 25 D. 4980	11. What is the value of k in the equation below?
0.20	$\frac{2k-3}{3} + 2k = 15$
6. Work out:- 14 - (12 x 6) ÷ ²/, of 108 + 30	
A. 47 B. 19	A.6 B.2
D. 13	C. 3 D. 2 ¹ / ₂
A minibus weighed 3 5 tonnes when em	pty. It 12. After receiving a discount of 12%, Silas pai
weighed 7.84 tonnes when callying	
passengers. What was the average wei	
each passenger in kilogrammes?	
A. 70 B. 120	C. Sh. 24672 D. Sh. 9292.80 13. What is the next number in the sequence
C. 80 D. 82	
and the state of allowing items.	below? 1, 8, 27, 64,
8. Karimi bought the following iterio, 3kg of rice at sh. 120 per kg	A 125 B 216 C 324 U 105
1 ¹ / ₂ kg of meat at sh. 320 per kg	A. Kinungo fenced a rectangular piece of lar
2 ¹ / ₂ kg potatoes at sh. 60 per kg	measuring 80m and 120m, he used 0 strain
aka tin of cooking fat for sn. 230	of 120m. He used 6 strands of whe, leaving
If he had sh. 1500, how much money v	vas he space of 5m for the gate. What was the to
	length of the wire used?
left with? A. Sh. 50 B. Sh. 280	A. 2400m B. 2370m
	C 1200m D. 400m

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What is the area of the plot in cm²? B 48000cm²

- A. 48cm² B. 48000cm² C. 480cm² D. 480000cm²
- C. 480cm²
 D. 460000cm
 16. Lorraine has p mangoes. She has 4 more bananas than mangoes and twice as many oranges as the total number of mangoes and bananas. How many fruits does she have

altogether	
A. 4p + 8	B. 6p + 8
	D. 6p + 12
C. 3p + 12	the second of a

- 17. Hassan bought 150 pineapples @ sh. 80 for every 5 pineapples. How much should he sell a pineapple in order to make a profit of 25%?
 A. Sh. 25
 B. Sh. 20
 C. Sh. 16
 D. Sh. 12
- C. Sh. 16 D. Sh. 12
 18. The price of a stool decreased from sh. 500 to sh. 460. What was the percentage decrease?
 A. 20% B. 25%
 C. 20% D. 125%
- C. 80% D. 125%
 19. A wheel of a bicycle has a radius of 21cm. How many revolutions does it make to cover a distance of 132km?
 - A. 1000 B. 100000 C. 10000 D. 100000
- C. 10000
 D. 1000000
 20. Zadoc spends ¹/₂ of his salary on food. ²/₅ of the remainder on rent and the rest on clothes. How much was his salary if he spends sh. 1500 on clothes?
 - A. Sh. 5000 B. Sh. 4500 C. Sh. 6500 D. Sh. 450
- 21. The diagram below shows an isosceles triangle. Calculate the area of the triangle.



22. It takes 8 men to dig a trench in 18 days. How many more men will be required to dig in 12 days?

A. 12 B. 4
C. 9 D. 6
23. Simplify the expression:-

$$\frac{3(q+2r)+2(q-4r)}{6(4q-2r)-r}$$

A

$$\frac{5q-2r}{24q+13r} = \frac{8}{24q-13r}$$

C.
$$5q - 2r$$

 $24q + 11r$
D. $5q + 2r$
 $24q - 13r$

24. Find the area of the shaded part in the figure



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- 29. During a pandemic Kamwana woke up at 3.20a.m on Tuesday after sleeping for 8 hours and 45 minutes. At what time did Kamwana sleep in 24hrs clock system? B. 0635hrs A. 1835hrs D. 1725hrs C. 0525hrs
- 30. Which of the following sets of numbers decreases with 100?
 - A. 6342, 6242, 6142, 6042
 - B. 6649, 6749, 6449, 6849
 - C. 2103, 2203, 2303, 2403
 - D. 7342, 7442, 7542, 7642
- 31. The following are properties of quadrilaterals;
 - (i) Opposite angles are equal (ii) Diagonals bisect each other at right angles
 - (iii) Diagonals are equal in length
 - (iv) Has four equal co-interior angles

(v) Diagonal do not bisect at a right angle

Which properties were true for a rectangle?

- B. i, ii, vi - A. i. ii, vi
 - D. iii, iv, v C. ii, iii, iv
- 32. Abdallah a salesman is paid a basic salary of sh. 10,000 per month. He is also paid a 10% commission on goods sold. In one month he sold goods worth sh. 200,000. How much did he earn in that month?
 - B. Sh. 25,000 A. Sh. 15,000 🕚
 - D. Sh. 10,000 C. Sh. 30,000
- 33. Find the volume of the container below when half full in decilitres (Take $\pi = \frac{22}{7}$)



	A. 92.4dl	B. 18480al
	C. 94.2dl	D. 184.8dl
34.	Solve the inec	uality below:-
·	4y - 20 > 2y	

B. y > 3¹/,

D. y < $3^{1/2}$

A. y < 10C. 10 < y 35. The table below shows the postal rates for sending money orders.

Value of order Sh Upto 500	Ordinary money order commission 42.00	Express money order commission 77.00 146.00
501 - 1000 1001-3000 3001-5000 5001-10000 10001-20000	114.00 174.00 200.00 295.00 441.00	203.00 237.00 319.00 503.00

Kangoro sent ordinary money order of sh. 8700 to his son in Elimu Kibao and sh. 9400 express money order to his daughter in Masimachungu. How much was the total amount of money paid at the Post Office altogether? B. Sh. 18541 A. Sh. 18100 D: Sh. 19044 C. Sh. 18898

36. Construct a triangle DEF in which line EF = 5.6cm, DE = 4cm and angle $DEF = 120^{\circ}$. Draw a circle that passes through the vertices of the triangle. What is the length of half of the diameter?

A. 4.9cm	B. 5.2cm
C. 2.6cm	D. 9.6cm

37. Kipsang deposited sh. 24000 in a bank that pays a simple interest at a rate of 10% per annum. What was the amount of interest earned at the end of 18 months?

A. Sh. 3600	B. Sh. 43200
C Sh 3720	D. Sh. 27600

38. The figure below is a rectangular piece of land measuring 4cm by 2cm.



It is drawn to a scale of 1:40000. What is its area in hectares?

A. 64ha	B. 32ha
	m 400h

C	44ha	D. 128ha	
Ψ,			

39. In 2015 a town had a population of 400000 people. In 2016 the town had a population of 500000 people. What was the percentage increase of the population? B. 80% A 000/

125%

	· A. 20%	
	C. 25%	D.
1		

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40. What is 7 1/3% expressed as a ratio in its simplest form?

A. 15:2	B. 40:3
C. 15:200	D. 3:40
0.10.200	11

41. A cylindrical log has a radius of 0.7cm and a length of 2m. What is the area of the curved surface? (Take $\pi = \frac{22}{7}$) 4.4m² A. 8

8.8m²	B. 4.4m²	
$10.56m^2$	D. 14.96m ²	

C. 10.56m² 42. The pie-chart below shows how Gitumbi spent his August salary in 2014.



If he spent sh. 2400 more on school fees than clothing now much does he save? B. Sh. 3000 A. Sh. 960 D. Sh. 21600 C. Sh. 14400

43. What is half the value of;

$$\frac{(+y)}{z} + \frac{y-x}{z}$$

when x = 6, y = x + 4, z = 1/2y?
A.4 B.3
C.2 D.1

44. The figure below shows a stack of cubes.



If it was dipped in a green paint, how many faces got the paint on two faces only? B. 32 A. 20

D. 30 C. 24 45. Korir visited her aunt on 4th of February of 2016. He stayed there upto the morning of 14th of April. How many nights did he stay there? B. 61 A. 60 D. 59 C. 62

- 46. Ten std. 8 girls of Getune school sat for a test and had a mean score of 6.3. The scores of the nine pupils were 5, 6, 7, 8, 3, 4, 8, 9, 8. What was the score of the tenth pupil? B. 5 A. 10 D.7 C. 8
- 47. Sigei left Kericho to Bomet at 7.20a.m a distance of 168km. After driving for 40min he got a puncture which took him 1 hour to repair. He then continued with the journey and arrived at Bomet at 10.00a.m. What was the average speed for the whole journey?
- B. 84km/h A. 70km/h D. 60km/h C. 63km/h **48. What is the value of;** 91013 ÷ 13 ? B. 701 A. 71
 - D. 70001 C. 7001
- 49. Ice was put in a fridge and cooled to -22°c. It was then heated up to 20°c. What was the rise in temperature? B. 20°c A. 22°c
 - D. -20°C
- C. 42°C 50. The graph below shows motorists A and B moving in different directions.



stopped to rest the second time? B. 40km A. 36km D. 18km C. 46km

