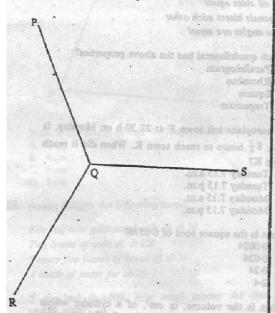
KCPE 2006 MATHEMATICS

- 1. What is 73121025 written in words?
 - A. Seven million three hundred and twelve thousand one hundred and twenty five.
 - B. Seventy three million one hundred and twenty one thousand and twenty five.
 - C. Seven hundred and thirty one million two hundred and ten thousand and twenty five.
 - D. Seventy three million twelve thousand one hundred and twenty five.
- seeds a of invest new affect to needl vis-2. What is 1-28978 correct to three decimal places?
 - A 1.28.
 - B. 1-289 C. 1-29

 - D. 1-290
- 3. Mosi sold milk from 7th January to 7th March 2006. For how many days altogether did he sell the milk?
 - A. 58
 - B. 59
 - C. 60
 - D. 61
- 4. In the figure below lines PQ, RQ and SQ have been constructed to meet at O.



Measure angle SQR. The Old stripled have me at at the

What is the size of angle SQR?

- A. 63°
- B. 114°
- C. 117°
- D. 129°

- 5. What is the rum of the total values of the digits in the hundreds and ten thousands positions in the number 693582?
 - 2. In the year 2002, the number of pupils in 000 ce .A
 - B. 90 500 and signer to redmin and 1000 at .008 see
 - C. 10 100 1000 rd stadt oww allque vilate wolf .Atta
 - D. 9 500
- How many vertices does a triangular prism have?

 - B.
- 7. Sotsi borrowed sh 20 000 from a money lender at a simple interest rate of 5%-per month. How much did he pay back altogether at the end of one year?

C. 168

C. 47

A. 16

- A. sh 32 000
- B. sh 21 000
- C. sh 20 060
- D. sh 12 000
- 8. The heights in centimetres of 10 pupils are given below:

169, 173, 158, 170, 159, 171, 163, 159, 180, 167

What is the mean height of the pupils?

- A. 159 cm W that there to there are produced and
- 166-9 cm
- C. 168 cm
- D. 1 669 cm . In about the one bits retor your world
- 9. What is the next number in the pattern:

1-2, 2-4, 4-8, _____, . . .?

- A. 6.0
- B. 7-2 a no betmerton el entemolisi è lo congreso A . El
- C. 84 or slave and at hor W. someonimes a to singled a vel
- D. 9-6,
- 10. The decimals 0-09402, 0-09042, 0-09024, 0-09204 are: to be written from the largest to the smallest. Which one of the following is the correct order?
 - A. 0-09204, 0-09402, 0-09042, 0-09024
 - B. 0-09402, 0-09042, 0-09204, 0-09024
 - C. 0-09402, 0-09204, 0-09042, 0-09024
 - D. 0-09024, 0-09042, 0-09204, 0-09402
- 11. A rectangular plot of land measures 40 m by 30 mm. There is a wall on one of the longer sides. Four strands of wire are to be used to fence the three remaining sides of the plot. What length of wire is required?
 - A. 4800 m
 - 560 m B.
 - C 400 m
 - 100 m

	A least to the second of the second of the second of		hat is 731,21025 written in words?
12.	In the year 2002, the number of pupils in a school	1 10	Mula sold an item for sh 9 900 and made a loss of
	was 800. In 2003 the number of pupils increased by	10.	
	40%. How many pupils were there in 2003?		10%. What was the cost price of the item?
	And the second		A. sh 11 000
	A. 320	1400	B. sh 9910
	T. T. S.		C. sh 9000
	. The State of th		D. sh 8910
	C. 840		ternal and toundry first
	D. 1120	19.	Twenty litres of milk was given to a class of 50
	a moradi ya manadaleo a a a a a a a a a a a a a a a a a a a		pupils to share equally. How many decilitres of milk
3.	A pupil intends to add the fractions $\frac{2}{7}$, $\frac{3}{8}$ and $\frac{5}{6}$.		did each pupil get?
			A. 0.4
	Which one of the following numbers should she		B. 4
	choose as the least common denominator?		C. 40
	A. 56 may and to be and to and meetin hand visc-		D. 400
	B. 48		
	C. 168	20.	What is the value of $0.6 - 0.4 \times 0.23 - 0.01$?
	D. 336		A. 0-036
	Min.es.		B. 0-044
4	Mukami had 135 two hundred shillings notes which		C. 0-498
	she changed as follows:	100	D. 0-518
	stie changed as tottows.	120	The supposed five facilist nowe his unitshift of
	sh 21 000 into one thousand shillings notes	21.	A certain quadrilateral has the following properties:
	sh 3 000 into five hundred shillings notes	1	
	sh 2000 into one hundred shillings notes and		Has two sets of parallel sides
			Has all sides equal
	the remaining amount of money into flfty shillings notes.		Diagonals bisect each other
	"Co waking the through the like "The Second		Some angles are equal
	How many notes did she get altogether?		Which and dilessed has the above managing
	A. 67		Which quadrilateral has the above properties?
	B, 54 constitute and all and many cross soft of and	a de	A. Parallelogram
	C. 47		B. Rhombus
	D. 20	No.	C. Square
	D. 29		D. Trapezium
5.	A distance of 5 kilometres is represented on a map	22.	An aeropiane left town F at 22 30 h on Monday. It
	by a length of 4 centimetres. What is the scale used?		
	A. 1:125		took 84 hours to reach town K. When did it reach
	B. 1:1 250		town K?
	C. 1:12:500 0 .5000-0 .5000-0 .0040-0 destinates	10	A. Tuesday 7.15 a.m.
		100	B. Tuesday 7.15 p.m.
	D. 1:125 000		C. Monday 7.15 a.m.
	CHILL MANN WARRY OF IT STRAORD OF 10 S	1	D. Monday 7.15 p.m.
D.	What is the value of $7(8^2 - 7^2) + 63 + 7?$		
	A. 16 (1992) 14 (1990) 150000 150000 150000 1	23.	What is the square root of 0-0576?
	B. 23 PEDEO-U MODES-O "CHORD-O "CONCO-O		A. 0.0024
	C. 24	2	B. 0-024
			C. 0.24
		132	
	D. 114		
		1.	D. 2-4
	D. 114 What is the value of x in the equation	24.	D. 2-4 What is the volume, in cm ³ , of a cylinder whose
7.	D. 114 What is the value of x in the equation $1\frac{1}{4}x+4=13-x?$	24.	D. 2-4 What is the volume, in cm ³ , of a cylinder whose diameter is 14 cm and height 10 cm? $\left(\text{Take } \pi = \frac{22}{7}\right)$
7.	D. 114 What is the value of x in the equation $1\frac{1}{4}x+4=13-x?$ A. 68	24.	D. 2-4 What is the volume, in cm ³ , of a cylinder whose diameter is 14 cm and height 10 cm? $\left(\text{Take } \pi = \frac{22}{7}\right)$ A. 6160
7.	D. 114 What is the value of x in the equation $1\frac{1}{4}x+4=13-x?$ A. 68 B. 36	24.	D. 2-4 What is the volume, in cm ³ , of a cylinder whose diameter is 14 cm and height 10 cm? $\left(\text{Take } \pi = \frac{22}{7}\right)$ A. 6 160 B. 1 540
7.	D. 114 What is the value of x in the equation $1\frac{1}{4}x+4=13-x?$ A. 68	24.	D. 2-4 What is the volume, in cm ³ , of a cylinder whose diameter is 14 cm and height 10 cm? $\left(\text{Take } \pi = \frac{27}{7}\right)$ A. 6160

25. Mbogo and Kihara shared some money such that Mbogo got 1 of the money shared out. What was the ratio of Mbogo's share to that of Kihara?

A. 4:3

B. 3:1

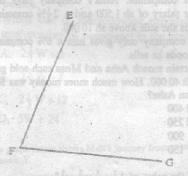
C. 3:4 D. 1:3

26. Onyango paid sh 950 for an item after getting a discount of sh 50. What percentage discount did he

B. 5%%

C. 5 1/8 % D. 95%

27. The figure below is part of a rhombus EFGH. Complete the rhombus.



What is the length of balf the longer diagonal?

A. 3 cm

B. 4 cm

C. 6 cm

D. 8 cm

28. Samira bought the following items:

Five half-litre packets of milk @ sh 30 Two crates of soda @ sh 320

Twenty five loaves of bread @ sh 23

A bottle of water for sh 25

If she had sh 2000, how much money did she remain with?

A. sh-1 602

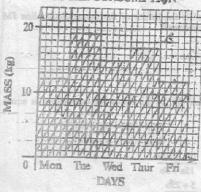
B. sh 1 390

C. sh 635

D. sh 610

29. The bar graph below shows the number of kilograms of sugar consumed by a school in five

SUGAR CONSUMPTION



In which pair of consecutive days was the total consumption the highest?

A. Mon and Tue

B. Tue and Wed

C. Wed and Thur

D. Thur and Fri

30. A youth group organised a film show to raise funds. Two hundred and eighty men attended the little show. The number of women who attended was half the number of men, while the number of youths was three times the number of both men and women. The charges were sh 50 per adult and sh 20 per youth. How much money was raised?

Which one of the postal exter comit

001 de a 001 de + 001 da + 004 da

ah 300 4 ah 300 + ah 100 . ali

sh 200 + sh 200 + sh 200 + sh 100

A. sh 46 200

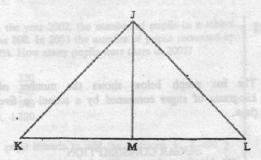
B. sh 37 800

C. sh 25 200

D. sh 21 000

31. In the figure below, JK = JL = 25 cm and KM = ML.

The perimeter of triangle JKL = 98 cm.



What is the length of the perpendicular line JM in centimetres?

- A. 25.
- B. 24.
- C. 12
- D. 7
- 32. Which one of the following expressions is equal to

$$\frac{5(2a-3b)+5(a+5b)}{3(4a-3b)+3(a+4b)}$$
?

- A. 15a + 10b
 - 15a + 3b
- B. $\frac{5+25b}{6+12b}$
- C. $\frac{15a + 40b}{15a + 21b}$
- 15a + 2b

15a+b

 The following table shows the commission charged when one buys postal orders.

COMMISSION (sh)
11-00
12-00
23-00
39-00

Wanged wanted to send sh 700 by postal orders. Which one of the postal order combinations given below should she buy in order to pay the least commission?

- A. sh 400 + sh 300
- B. sh 400 + sh 100 + sh 100 + sh 100
- C. sh 300 + sh 300 + sh 100
- D: sh 200 + sh 200 + sh 200 + sh 100

- 34. An open cylindrical tin of diameter 14 cm and height 21 cm was painted on the outside. What was the area painted? (Take $\pi = \frac{22}{7}$)
 - A. 3 234 cm²
 - B. 2464 cm²
 - C. 1 232 cm²
 - D. 1078 cm²
- 35. What is the value of $\frac{r(p^2+qp)}{r+q}$ given that r=6,

$$p = r + 2$$
 and $q = p - 3$?

- A. 56 8
- B. 38 6
- C. 30 6
- D. 20 4
- 36. Asha and Musa are salespersons employed by two different companies. Asha's company pays her a monthly salary of sh I 500 and a 2½% commission on goods she sells above sh 10 000.

Musa's company only gives him a 6% commission on all goods he sells.

On a certain month Asha and Musa each sold goods worth sh 40 000. How much more money was Musa paid than Asha?

- A. sh 2 400
- B. sh 2 250
- C. sh 900
- D. sh 150
- 37. What is the value of $1\frac{1}{6} + \frac{1}{4} \times \frac{2}{3} + \frac{5}{3}$?
 - A. 59
 - B. 3 1/12
 - C. 3 57
 - D. 7
- 38. A pick-up whose mass is one tonne when empty was loaded with 40 bags of sugar each weighing 50 kg and three bags of maize each weighing 65 kg.
 What was the total mass in tonnes of the loaded

What was the total mass, in tonnes, of the loaded pick-up?

- A. 3-195
- B. 3-065
- C. 3-0
- D. 2-195

39. In a relay race Obong'o ran 600 m, which is ²/₃ of the race, in 3 minutes. Kyalo took 5 minutes to complete the rest of the race.

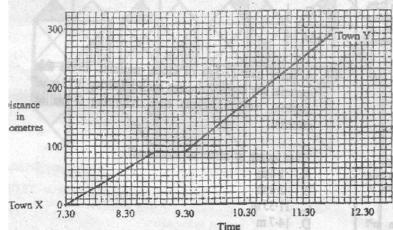
What was the average speed for the whole race in m/s?

- A. 3
- B. 3 1/8
- C. . 3 1/6
- D. $-3\frac{1}{3}$
- 40. Forty two men were hired to repair a stretch of road in 14 days. How many more men should be hired if the work was to be finished in 12 days?
 - A. 6
 - B. 7
 - C. 49
 - D. 91
- 41. The number of women passengers in a bus was W. The number of children in the bus was three times that of men passengers but was 6 more than that of women.

Which one of the following expressions shows the total number of passengers in the bus?

- A. $2\frac{1}{3}W + 8$
- B. $2\frac{1}{3}W 8$
- C. 21W+12
- D. 5W + 24

. The graph below shows Muli's journey from town X to town Y.

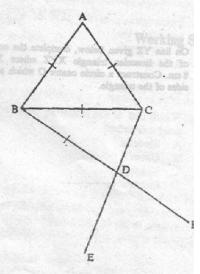


What was the average speed, in km/h, for the whole journey?

- A. 72 1
- B. 70
- C. 64 4
- D. 444

Working Space

42. In the figure below lines AB, AC, BC an equal. BDF and CDE are straight lines a ABD is a right angle.



The hire purchase price for

B. sh 900

on three practicest terms by paying as sh 13 200 and the remarkaling amortal it

A flower garden is made up of a semidiameter 14 m, a rectangle messering 30 mm

What is the size of angle EDF?

- A. 30°
- B. 45°
- C. 60°
- D. 75°

44. On line YZ given below, complete the construction of the isosceles triangle XYZ where XY = XZ = 8 cm. Construct a circle centre O which touches the sides of the triangle.



What is the radius of the circle?

- A. 2 cm
- B. 3-6 cm
- C. 4-3 cm
- D. 5-4 cm
- 45. The hire purchase price for a wall cabinet is 25% more than the cash price. Kalulu bought the cabinet on hire parchase terms by paying a deposit of sh 13 200 and the remaining amount in 12 equal monthly instalments.

If the cash price was sh 24 000, how much was each monthly instalment?

- A. str 400
- B. sh 900 C. sh 1 400
- D. sh 2 500
- 46. A flower garden is made up of a semicircle of diameter 14 m, a rectangle measuring 20 metres long-and 14 metres wide and a quarter of a circle of radius 14 m.

What is the area, of the flower garden in m²? (Take $\pi = \frac{22}{7}$)

- A. 742
- B. 665
- C. 511
- D. 395+

47. Kamau, Wasike and Omollo sell newspapers. One day Omollo sold 20 newspapers more than Wasike who sold 10 newspapers more than Kaman.

The total number of newspapers they sold that day was 140.

If Wasike sold y newspapers, which one of the following equations can be used to find the number of newspapers sold by Wasike?

- A. 3y + 10 = 140
- B. 3y + 30 = 140
- C. 3y + 20 = 140
- D. y+30=140
- 48. Moraa shared money among her four children. Muta, Somo, Nduta and Aroya. Muta got 1 of the money while Somo got 1 of the remainder. The rest was shared equally between Nduta and Aroya.

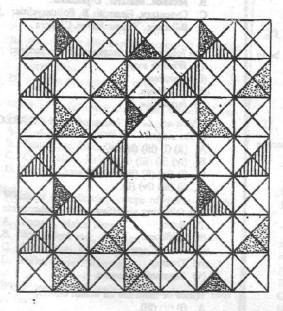
What fraction of the money did Aroya get?

- D. 1
- 49. A tailor had 17.5 m of cloth material. From this material she made 2 dresses each requiring 3-75 m of material, and 3 jackets each requiring 2-4 m of

What length of material remained?

- A. 1-4 m
- B. 2.8 m
- C. 11-35 m
- D. 14-7 m

B. Jermis C. porce



Which one of the shapes below will complete the pattern above?

