

Moderated item 7

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

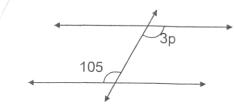
SECTION A (40marks)

1.Add: 32 to 14.

- 2. Write the numeral 5045 in words.
- 3. Given that set $K = \{\text{prime numbers between } 10 \text{ and } 20\}.$ Find n(K)

33. Workout: $2\frac{1}{2} \div \frac{1}{4}$

Calculate the value of P in the diagram below:



35. Simplify: 3(p-q) - (p+q)

36.A taxi reached Entebbe at 4:10pm from Kampala, the journey took 80 minutes. When did it leave Kampala?

37.Find the next number in the sequence 256, 64, 16, 4, ____

38.Using a ruler, pencil and a pair of compasses only construct an angle of 120° at point P below.



39. Solve: $3^{\circ} + 7 \le 13$

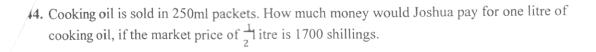
40. Workout the lowest common factor (L.C.F) of 12 and 15.

41. Study the table below and find the median mark.

		COLLEGE AL	TICE CLIV	LIICUI	и
No. of pupils	1	3	2	1	
Marks scored	30	15	25	10	

42. Given that a = -3, b = 2. Find the value of 2a + 2b.

43. Simplify: +11+-15



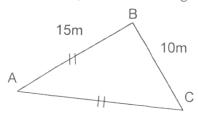
45. Simplify: $2^4 \div 2^2$

46. Workout: 5.4 ÷ 0.9

47. Express 12:40pm in a twenty-four-hour clock system.

48. Round off 380.59 to the nearest whole number.



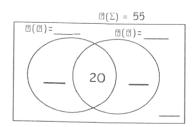


SECTION B (60marks)

50. In a class of 55 pupils, 40 pupils like English (E), Y pupils like mathematics (M), 20 pupils like both subjects, and 10 like none of the two subjects.

(a) Complete the Venn diagram using the above data.

(7m337k3)

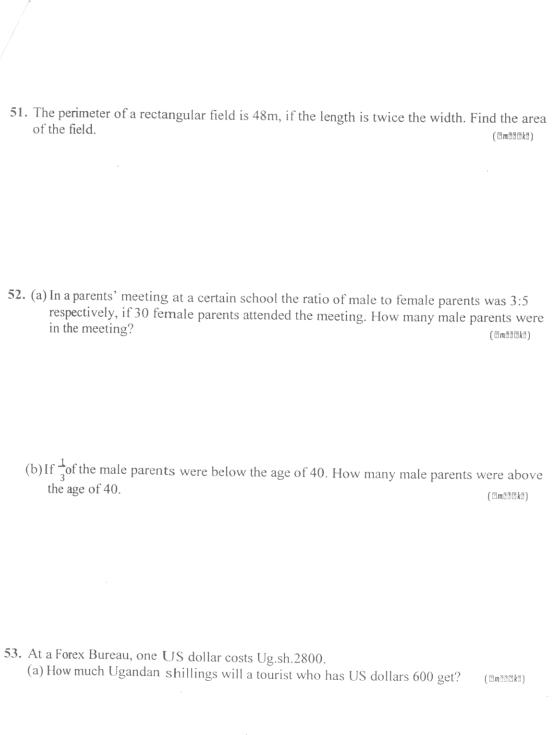


(b) Find the value of Y.

(@m@@@k@)

(c) How many pupils like mathematics only?

(0md00k0)

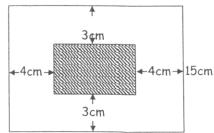


(b) If a businessman had Ug.sh. 630,000. How many US dollars will he get at the same exchange rate?

54. A teacher bought 8 books at sh. (p - 1500) each book and 2 pens at sh. (p + 1000) each pen. If the teacher spent 53,000 shillings altogether, how much money did he spend on the books?

55. Find the Area of the shaded part in the diagram below.

(@m33@k3)



56. (a) Solve: 2 - 1 = 22 + 5

(b) Find the value of P in 3(2+p) < 15

(2m333k3)

57. A driver of a bus covered a distance of 120km in $1\frac{1}{3}$ 200. (a) At what speed was he travelling?

(2m332k3)

(b) What distance would be cover if he travelled for $2\frac{1}{2}$ 200.

(2m333k3)

58. Using a pair of compasses, a ruler and a pencil only construct a rhombus ABCD, where AB=5cm, angle ABC=60° from your accurate construction, measure the length of the (2m333k3) diagonal AC.

59. Given that the circumference of a circle is 88m. calculate its area (1808le pie = 1800) (19008le)

60. (a) The price of a hoe was increased by 10% to become 3520shillings. Calculate the original price of the hoe.

(b) In how many years will shillings 60,000 amount to 72,000 at the simple interest rate of 10% per annum.

study the pie-chart below carefully and answer the questions.



(a) If a parent spends 240,000 on food. How much does he earn per month?

(2m332k3)

(b) What fraction of his salary does he spend in its lowest terms.

(2m333k3)

END