KINGS SCHOOLS-KABOWA

P.6 MATHEMATICS

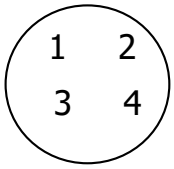
Week 1st – 6th April 2020

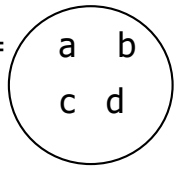
Name: ..... stream: .....

SET CONCEPTS

SECTION A (20 marks)

1. Set A = {All vowel letters}
   Find n (A)

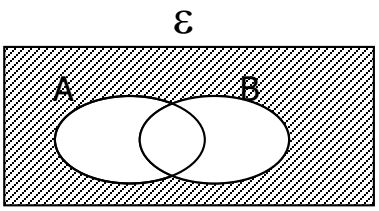
2. Set K = 

L = 

What is the relationship between set K and L.

3. Draw a venn diagram to show that all goats (G) are animals. (A).

4. Describe the shaded part below.



5. Find number of subsets in the set below. P = {1, 2, 3, 4}

6. Given that n (A) = 15, n (B) = 20 and n (A n B) = 9
   Draw a Venn diagram to show the above information.

7. Set P = {1, 2, 3, 4, 5, 6,}
   Q = {2, 3, 5, 7, 9}
   Find n (P – Q)

8. Given that set F = {All numbers on the dice}
   What is the probability of an even number showing on top?

9. Name the set symbol below.

   ⊂

   _____

10. How many proper sub sets can we get from a set with 5 elements?

Section B (30 marks)

11. Given that set A = {f, g, h, i, j}
B = {a, b, g, c, i, k}

(a) List members of;

(i) $A \cap B$

(ii) $A \cup B$

(iii) $A - B$

(iv) $B - A$

12. Given that T = {a, b, c, d, e, f}
F = {a, e, i, o, u }
Find;

(i) $n(T \cap F)$

(ii) $n(T \cup F)$

(iii) $n(T - F)$

(iv) $n(F - T)$

13. Given that n (S) = 30, n (G) = 23 and n (S n G) = 16

(a) Draw a venn diagram to show the above information.

(b) Find

(i) $n(S - G)$

(ii) $n(G - S)$

(iii) $n(S \cap G)'$

END

14. In a class of 17 pupils, 11 like English and 9 like Maths.
Use a venn diagram to find the probability of:

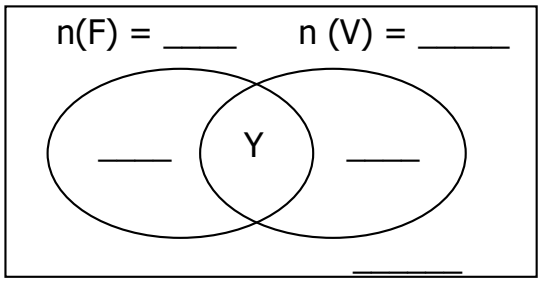
(i) Finding a pupil who likes all subjects.

(ii) Picking a pupil who likes Maths only.

15. In a class of 40 pupils, 26 like football (F), 23 like volleyball (V), y pupils like both games while two pupils like neither of the two games.

(a) Complete the venn diagram below.

$n(\mathcal{E}) =$ _____



(b) Find those who like two games.

(c) How many pupils like only one type of game

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Week 2 (7th – 13th April 2020)

Name: ……Stream: ……

WHOLE NUMBERS

SECTION A (20 marks)

1. Write the place value of the underlined digits.
   (a) 7 6 3 4

   (b) 3.6 4 9

2. Write the value of the underlined digits.
   (a) 3 4 6 8 9

   (b) 7. 6 4 6 7

3. Expand 3469 using powers of 10.

4. What number has been expanded;
$(7 \times 10^5) + (4 \times 10^4) + (3 \times 10^2) + (2 \times 10^0)$

5. Express the following in scientific notation.
   (a) 376000

   (b) 463.74

6. Write 7004104 in words.

7. Round off 1769 to the nearest hundreds.

8. Sarah read a book with 445 pages. Express these pages in Roman Numerals.

9. Find the sum of the value of 4 and the place value of 6 in the number 6743

10. Round off 29.97 to the nearest tenths.

Section B (30 marks)

11. Use the digits below to form.

(a) the largest numeral 3, 6, 4, 8

(b) Write the smallest numeral formed in words.

(c) Find their difference

12. Express the following in standard form

(i) 0.024

(ii) 304.6

13. Work out:

(i) XIX + VI

(ii) XI – IX

14. (a) Change 1011_{two} to decimal base.

(b) Convert 79_{ten} to binary base.

15. (a) If today is Thursday, what day of the week will it be after 38 days from now?

(b) If today is Friday, what day of the week was 20 ago?

END
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P.6 MATHEMATICS
Week 3 (14th – 21st April 2020)

Name: ……Stream: ……..

OPERATION ON WHOLE NUMBERS

SECTION A (20 marks)

1. Find the sum of 709 and 126.

2. Subtract 79 from 81.

3. Find the difference of 1967 and 969.

4. Containers K and L have 7469 litres of milk and 6974 litres of milk. How much milk is there altogether?

5. Akello had shs 17500 and he lost shs 1880. How much did she remain with?

6. Add:
$$\begin{array}{r} 2\,3\,4\,9 \\ +\,4\,9\,6 \\ \hline \end{array}$$

7. Work out:
$$\begin{array}{r} 3\,9\,6\,9 \\ -\,2\,7\,3\,4 \\ \hline \end{array}$$

8. Divide 6,069 ÷ 7

9. Multiply 243 x 14

10. Find the sum of the value of 6 and 4 in the number 76349.

SECTION B (30 marks)

11. Mukasa's poultry farm produces 6000 eggs in a day. If the eggs are packed in trays of 30 eggs

each, how many trays of eggs does he produce in a week?

12. John wrote a four-digit number using the digits 1, 4, 7 and 3.
    (a) Form the largest number from the above digits.

    (b) Work out the sum of largest and the smallest number formed.

    (c) Work out their difference.

13. If a father had 72000/- and he shared it among his three sons equally how much did each get?

14. The table below shows the number of Maths text books that were given to different schools by the ministry of education.

Fairways	Sir Apollo Mengo	Winston	Kaso P/S
1,439	2369	493	1,190

    (a) Who got the highest number of books?

    (b) Find the total number of books that were given to all schools.

15. Work out the following numbers.
    (a) 2727 ÷ 9

    (b) 1274 x 14

END

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Week 4 (22nd – 29th April 2020)

Name: ……Stream: ……

NUMBER PATTERNS AND SEQUENCES

SECTION A (20 marks)

1. List down all the factors of 30.

2. Write down the common factors of 12 and 18.

3. Prime factorise 24 and show your answer in power form.

4. Find the value of 2^5.

5. Write 32 in powers of 2.

6. Find the value of y^2 if $y = 7$

7. Find the value of $2^3 + 4^2$

8. Find the next number in the sequence ;
   2, 3, 5, 7, ____

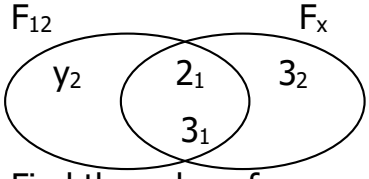
9. Write a set of the first five composite numbers.

10. The LCM of two numbers is 144 their GCF is 12 and one of these numbers is 48. Find the other number.

Section B (30 marks)

11. The sum of 3 consecutive whole numbers s 36. What are these numbers?

12. Study the Venn diagrams below and answer the questions.



(i) Find the value of y.

(ii) Find the value of x.

(iii) Work out the GCF of F_{12} and F_x.

(iv) Find the LCM of F_{12} and F_x.

13. (a) Work out the square of $\frac{2}{9}$

(b) Find the area of the square whose side is 3 ½ cm.

14. Work out the square root of;

(a) $\frac{36}{64}$

(b) 6 ¼

15. In a class there are two bells. One for lower rings every after 30 minutes and for upper which rings every after 40 min if they first rung at 8:30. After how many minutes will they ring together again?

END