KINGS SCHOOLS-KABOWA
P.O.Box 12170 Kampala
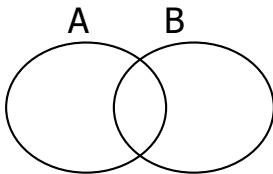
MATHEMATICS TOPICAL QUESTIONS FOR P.5

Week 1 (1st – 6th April 2020)

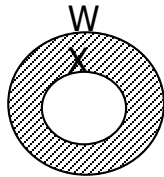Name: ………………………………………………………..Stream: …………………………….

TOPIC 1: SETS

1.   What is a set?

2.   Draw an empty set symbol.

3.   Given than K = {z, e, r, o}. Find n(K)

4.   If D = {m, a, n, g, o}   E = {o, r, a, n, g, e}

   Find   (i)   D∩E

         (ii)   D'

         (iii) n(D∪E)

5.   What is the probability of tossing a coin and a head shows up?
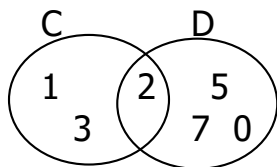
6.   Shade A – B

7.   Name the set symbol.

         ⊄ _____

8.   Describe the shaded region.

9.   Set F = {even numbers less than 10}

   List down the members of set F.

10. All dogs (D) are animals (A). Show this information on a venn diagram.

Section B

11. Use the Venn diagram below to answer questions

C   D

1   2   5
  3   7 0

(a) How many members are in set D'

(b) Find (i) n(C∩D)

     (ii) n(C∩D)'

(c) How many sub sets are in set D only?

12. (a) Given that F = {Prime numbers from 2 to 11}
                 G = {Even numbers less than 10}
   (i) Show the above information on a Venn diagram.
   (ii) Find (a) (F∪G)
            (b) n(G − F)

13. In a box there are 5 blue pens, 3 red and 7 black pens. If a pen is picked at random, what is the probability of picking;
   (a) a black pen
   (b) a red pen
   (c) a blue pen

14. If a die is tossed once, what is the probability of;
(a) a prime number showing up?
 (b) a number less than 5 showing up?
(c) a 3 showing up?

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TOPIC 2: WHOLE NUMBERS

1.   Write 312,015 in words.

2.   Express 139 in roman numerals.

3.   What is the place value of 3 in 3207?

4.   Write 2435 in expanded form.

5.   Find the value of 3 in 3201.

6.   Write in figures: One million one thousand one.

7.   Expand 3463.4 using powers.

8.   Round off 438 to the nearest hundreds.

9.   Convert XLIV in Hindu Arabic numerals.

10.   Grandfather is 99 years old. Express her age in Roman numerals.

11.   Find the number that has been expanded to give

        $(7 \times 10^4) + (2 \times 10^2) + (8 \times 10^0)$

12.   Show 4203 on an abacus.

13.   Given digits 4 6 1 2.

(a)   Form the   (i)   biggest number

                      (ii)   smallest number

(b)   Find the sum of the largest and smallest numbers formed.

(c)   Find the difference between the largest and smallest numbers formed.

MATHEMATICS TOPICAL QUESTIONS FOR P.5
Week 3 (14th – 21st April 2020)

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TOPIC 3: OPERATION ON NUMBERS

1.   Add: 14,875 + 6394

2.   Kagimu reads a story of 145 words. How many words will he read if he reads 5 such stories?

3.   Divide 3535 by 5

4.   Work out: 3 6 1 7
                     x   3 2

5.   Change 342_{five} to base ten.

6.   The difference between two numbers is 305. If the small number is 267, find the bigger number.

7.   Workout: (a)   3 + 2 = _____ (finite 4)

                  (b)   3 – 5 = _____ (finite 7)

8.   The average weight of 3 boys is 53kg. Find their total weight.

9.   What is the place value of 2 in 234_{ffive}.

10.   Find the average of 8, 3, 0, 2, 7

11.   Given the following: 4, 6, 4, 10

      Find the;   (a)   mode

                   (b)   mean

                   (c)   range

                   (d)   median

12.   (a)   Add: 2 3 1_{five} (b)   Subtract: 2 3 4_{seven}
                  + 2 2_{five} - 2 5_{seven}

             _____   _____

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Week 4 (22ⁿᵈ – 29ᵗʰ April 2020)

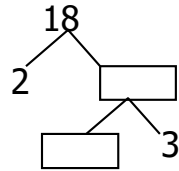Name: ……………………………………………………………..Stream: ……………………………..

TOPIC 4: PATTERNS AND SEQUENCES

1. Which of these is divisible by 3?

   65, 72, 83, 94

2. Find the product of the next two missing numbers.

   2, 3, 5, 7, ____, _____

3. What is the square of 7?

4. Find the square root of 121.

5. List all factors of 36.

6. Find the next number in the sequence.

   5, 6, 8, 11, 15, _____

7. Workout: (½ of 18) + (¼ of 16)

8. What is the GCF of 32 and 48.

9. Use <, > or = to complete.

   $(3^0 + 32)$ _____ $(5^2 – 5)$

10. Divide 3600 by 100.

11. If $y^2 = 81$, find the value of y.

12. Find the LCM of 16 and 24.

13. Use the figure below to answer questions that follow.

    (a)   Name the figure.

    6cm
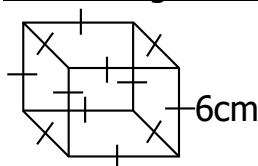
    (b)   Find the volume of the figure.

14. Find the missing numbers.

15. Compare using **>**, **<** or **=** to complete correctly.

(a)   213 _____ 312

(b)   ¾ of 16 _____ ⅔ of 18

(c)   2m _____ 150cm

(d)   XCV _____ C

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TOPIC 5: FRACTIONS

1. Given $3\frac{2}{4}$, use denominator, whole number and numerator to complete.

    (a) 2 is a _____

    (b) 4 is a _____

    (c) 3 is a _____

2. Express $3\frac{2}{4}$ as an improper fraction.

3. What is ¾ of 20?

4. A driver covered ⅓ of his journey of 72km. What distance did he cover?

5. Find the missing number. $^3/_5 = {^{12}}/$

6. Shade ¾

7. Write $^{32}/_3$ as a mixed fraction.

8. Use >, < or = to compare.

    $^{18}/_{24}$ ☐ $^6/_8$

9. Workout:

    (a) ½ + ⅓

    (b) $3\frac{2}{3} + 1\frac{2}{3}$

    (c) $4\frac{5}{6} - 1\frac{1}{3}$

10. On a farm of 30 animals, $^3/_5$ of them are cows and the rest are goats.

    (a)   How many cows are on the farm?

    (b)   How many goats are on the farm?

    (c)   What is the fraction of goats?

    (d)   How many more cows than goats are on the farm?

11. In a P.5 class of 50 pupils, $^3/_{10}$ of them were absent. The rest were present.

    (a)   What fraction of the class was present?

    (b)   How many pupils were absent?

    (c)   How many more pupils were present than absent?

12. Arrange these fractions in descending order.

$^5/_6, \quad ^2/_3, \quad ^1/_4, \quad ^3/_4$

14. Compare using >, < or =

    (a) $\frac{3}{4}$ _____ $\frac{6}{8}$ (c)   ⅓ _____ ¼

    (b) $\frac{2}{3}$ _____ $\frac{5}{6}$

----------END----------------