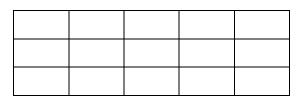
#### **HOLIDAY PACKAGE SET 18**

1. Work out:

•
3

\_\_\_\_



2. Write in figures: Two thousand forty three

234 five + 1 1five

\_\_\_\_

3. Simplify: 2m + 4m + 7n

9. Find the next number in the sequence:

1, 3, 6, 10, 15, \_\_\_\_\_

4. Work out:  ${}^{3}/_{7} \times {}^{2}/_{5}$ 

10. Work out: -7 + -5 =

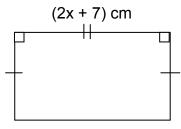
5. Round off 2378 to the nearest hundreds.

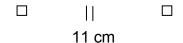
11. Change 3 ½ metres to centimeters

6. Write 49 in Roman numerals.

12. Solve for x

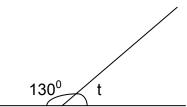
7. Shade  ${}^3I_5$  of the diagram shown below.



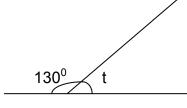


17.	Add:	Hrs	Min
		7	45
	+	4	30
	<u> </u>		

Find the value of t in the diagram 13. below.



Convert  $^2/_5$  to a decimal fraction. 18.

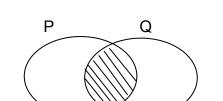


 $^{3}/_{5} - ^{2}/_{5}$ 19. Subtract:

- 14. Masika scored the following marks in mathematics tests: 80, 40, 30, 50, 70, 60 and 40. Find the median mark.
- 20. In the space below, draw a net for a cube.

Describe the shaded region of the

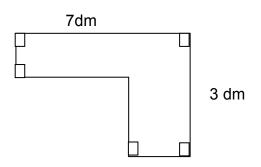
The area of a square is 36cm<sup>2</sup>. Find 15. the perimeter of the square.



venn diagram below.

21.

- Find the perimeter of the figure 22. below.
- Ssebaduka bought a bicycle at shs. 80,000. He sold it to Kakande at a 16. loss of 10%. How much did Kakande pay for the bicycle?



- 27. Increase 60 in the ratio of 2:3
- 23. Arrange the following fractions in ascending or increasing order.  $\frac{7}{10}, \frac{2}{5}, \frac{3}{4}, \frac{1}{2}$
- 28. Add: 2 + 5 = \_\_\_\_\_ (finite 6)
- 24. Given that a = 2, b = 3 and c = -1. Find ab
- 29. Walukagga deposited shs. 50,000 in a bank which offers an interest rate of 10% per year. Find his interest after 3 years.
- 25. Using a ruler, a pencil and a protractor, draw an angle of 42<sup>0</sup> in the space provided below.
- 30. Work out: 0.24 x 0.3 0.2 x 0.6

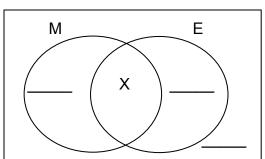
26. A crate of beer of 25 bottles costs shs. 50,000. What is the cost of each bottle of beer?

#### **SECTION B**

- 31. In Banda primary school, there are 67 pupils in primary five, 35 of these pupils like English (E), 40 pupils like Mathematics (M), 3 pupils like neither of the two subjects, X pupils like both Mathematics and English.
- (i) Use the above information to complete the venn diagram below.

#### 3 Approved: 0777 023 444

E = \_\_\_\_\_



(ii) How many pupils like both subjects?

(iii) How many pupils like only one subject?

- (iv) What is the probability of selecting a pupil who likes Mathematics only to be the class monitor?
- 32. Study the three by three magic square below and answer the questions that follow.

3	а	7
b	9	С
11	d	15

- (a) Find the magic number.
- (b) Find the values of;

i) a

iii) c

ii) b

iv) d

33. Study the frequency table below showing the ages of pupils in a primary six class of Bugabwe primary school.

Age in years	Tally marks	Number of children
14	TH+ TH+ IIII	
13		
12		
11	HT	

- (i) Complete the table by filling the last column.
- (ii) Which age has the most pupils?
- (iii) Which age has the least pupils?

(iv) How many pupils are in this class?

34. One bell rings every 20 minutes. Another bell rings every 30 minutes. The bells start ringing at 10:30am. What time will the bells next ring together?

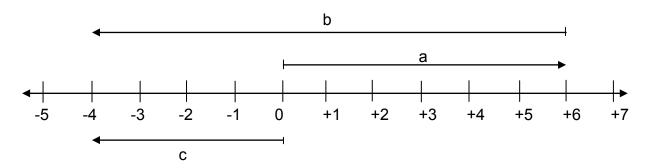
- 35. Benecto had shs 6,000. He gave it to his children John and Mary in the ratio of 3:2 respectively. Find the amount of money each child received.
  - i) John

ii) Mary

- 36. Put >, < or = to make the following true.
  - i) 2 + 7 \_\_\_\_\_ +2 + -7

- 1000 x 0 x 200 \_\_\_\_\_ 1 + 3 ii)
- 2<sup>0</sup> \_\_\_\_\_ 1000<sup>0</sup> iii)
- 3 minutes \_\_\_\_\_ 90 seconds iv)
- v) 200 cm \_\_\_\_\_ 3 metres Using a pair of compasses, a ruler and a pencil only construct a regular hexagon of side 37. 4cm.

38. Study the number line shown in the figure below.



- What integers are represented by the following arrows? a)
  - i) а
  - ii) b

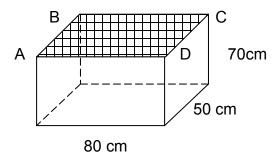
#### **Approved: 0777 023 444**

- iii) c
- b) Write down the mathematical sentence shown by the arrows on the above number line.
- 39a) Solve and give the solution set for x 2x 4 > 2

(b) Solve for k  $\frac{k}{5} = 6$ 

(c) Solve: 5x + 3 = 38

- 40. The rectangular tank shown in the figure below has a length of 80cm, width of 50cm and a height of 70cm.
  - i) Calculate the surface area of ABCD.

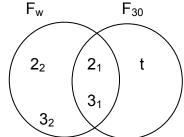


(b) Given that 1 litre = 1000cm<sup>3</sup>. How many litres of water can the tank shown above hold when full?

- 41. Given the digits 1, 5 and 2.
  - i) Write down the largest three digit number that can be formed using the above three given digits.

- ii) Write down two even numbers that can be formed using all the three given digits.
- iii) Find the product of the largest and smallest three digit numbers formed using the three digits given.

42. The venn diagram below shows the prime factorization of two numbers. Study it and use it to answer the questions that follow.



(a) Find the value of;

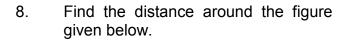
i) w

ii) t

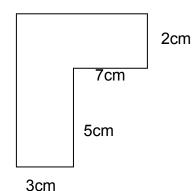
**Kampala Mathematics Club**nd w (c) Calculate the lowest common multiple of w and 30. Find the GCF of 30 and w (b)

#### **HOLIDAY PACKAGE SET 19**

1. Subtract: 37 -18



2. Write 13 in roman numerals.



3. Add: 0.13 + 13.171

- 4. Write 103 in words.
- 5. Find the square root of  $^{16}/_{9}$

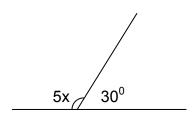
9. Bayiga scored the following marks in her morning mathematics tests: 7, 5, 9, 6 and 5. Find the range.

- 6. Find the next number in the sequence: 5, 7, 9, 11, 13, \_\_\_\_
- 10. What is the value of 8 in the number 27.183?
- 11. Multiply: -5 x -2.

7. Solve for x.  $\underline{2} = \underline{x}$ 5 20

12. Subtract: 214 <sub>five</sub> - 31 <sub>five</sub>

13. Find the value of x in the figure shown below.

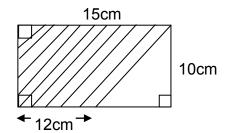


18. The cost of 5 eggs is shs. 400 in Kawete market. What is the cost of 36 eggs?

14. Write in short form, 2b – 5a + 7b + 8a

19. Kawooya ran a distance of 50 metres before falling down, what distance was this in centimeters?

15. Calculate the area of the shaded part.



20. Using a pair of compasses only, draw a circle of diameter 5cm in the space below.

16. Senyonga drove his car at a constant speed of 80km/hr for 3 hours. What distance did he cover?

21. Solve: 3x - 6 = 12

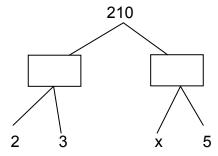
22. Find the additive inverse of -11.

17. What number is exactly half way between 4 and 12?

- 23. How many ½ litre mugs can be filled from a ten litre jerrican of milk?
- 28. If P = 3 and Q = 2, Find the value of 2 (PQ Q)

- 24. Round off 54621 to the nearest thousands.
- 29. Find the reciprocal of  $1^{1}/_{3}$ .

- 25. If today is Friday, what day of the week will it be 41 days from now?
- 30. Multiply: <u>3</u> x <u>4</u> 5 7
- 26. Find the missing number x in the factor tree below.

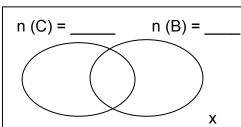


27. What number has been expanded to give (2 x 1000) + (5 x 1) + (3 x 100)

# **Kampala Mathematics Club** SECTION B

- 31. In a village of 40 people, 24 people grow coffee (C), 18 people grow bananas (B) and 5 people grow both coffee and bananas. X people grow neither of the two crops.
- (a) Represent the information on the venn diagram.

n (ε) = \_\_\_\_\_



(b) How many people grow only one type of crop?

(c) How many people do not grow any of the two crops?

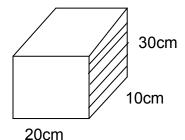
32. In a class of 49 pupils  $\frac{5}{7}$  of the class passed the mathematics test.

(a) How many pupils passed mathematics?

(b) What fraction of the class failed the mathematics test?

(c) How many more pupils passed mathematics than those who failed?

- 33. Study the cuboid shown in the diagram below.
  - (a) Calculate the area of the shaded face.



(b) Calculate the volume of the cuboid shown in the diagram.

(c) Given that 1 litre = 1000cm<sup>3</sup>. How many litres can the cuboid above hold?

- 34. Fatuma bought the following items from the market.
  - 2 loaves of bread at shs 1200 each
  - 4 bottles of soda at shs 600 each
  - 2 kg of sugar at shs 2000
  - 1 ½ of milk at shs 800 per litre
- (a) How much did Fatuma pay altogether?

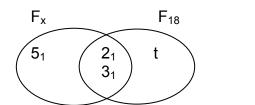
(b) If Fatuma was given 10% discount, how much did she pay?

Using a pair of compasses and a ruler only, construct a triangle PQR, where  $\overline{PQ}$  = 7cm, angle QPR = 90° and angle PQR = 60°.

- Measure: i) PR ii) ∠QRP
- 36. The venn diagram below shows the prime factors of two numbers. Use it to answer the questions that follow.

(a)

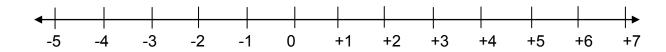
Find the value of x



(b) Find the value of t

(c) Find the GCF of x and 18.

- (d) Find the LCM of x and 18.
- 37a) Show the addition of these integers on the number line below. <sup>-3</sup> + <sup>+</sup> 9



(b) On a rainy day, the temperature dropped from 12°C to - 4°C. Find the temperature range.

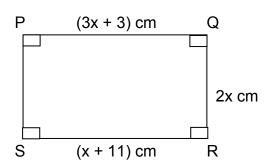
38a) Find the difference between the largest and smallest number that can be formed using these digits 4, 1, 5, 2.

(b) Find the missing numbers in the magic square.

8	1	6
а	5	b
4	С	d

39. PQRS is a rectangle.

(a) Find the value of x.



- (b) Find the perimeter of the rectangle.
- (c) Calculate the area of the rectangle.

40. Calculate the interior angle sum of a regular polygon whose exterior angle is  $60^{\circ}$ .

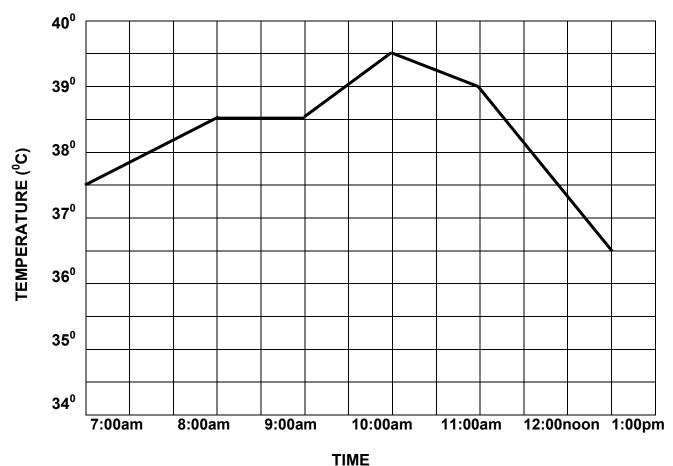
41. The timetable below shows the departure and arrival time for a bus from Kampala to Kasese.

Town	Arrival	Departure
Kampala		7:00am
Masaka	8:30am	8:45am
Mbarara	10:15am	11:30am
Kasese	1:00pm	1:30pm

- (a) At what time does the bus leave Kampala?
- (b) Find the time at which the bus arrives in Kasese.

(c) If Kasese is 336km away from Kampala, calculate the average speed of the bus for the whole journey.

42. The graph below shows the patient's body temperature recorded for 6 hours of the day. Study it and use it to answer the questions that follow.

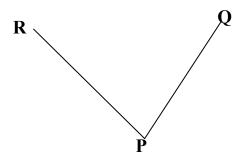


18 Approved: 0777 023 444

**Kampala Mathematics Club** What is the scale on the vertical axis? (a) At what time was the patient's body temperature highest? (b) (c) Find the temperature range of the patient's body recorded. At what time was the patient's temperature 39°C? (d) What was the patient's body temperature at 8:30am? (e)

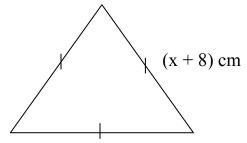
#### Kampala Mathematics Club HOLIDAY PACKAGE SET 20

- 2. John is 19 years old. Write his age in Roman numerals.
- 3. Simplify: -5 -5
- 4. Increase 20,000 animals in the ratio of 5:4.
- 5. Using a pair of compasses only, a ruler and pencil, bisect angle RPQ.



6. Okello earns shs.1080, 000 per month. He spends a third of it on feeding monthly. Calculate his expenditure on feeding in  $\{\text{EMBED Equation.3}\}$ 

8. The perimeter of the figure below is 36cm.



Find the value of x

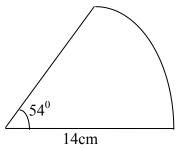
9. If set  $R = \{2, 4, 6, 8\}$  and  $R \cup S = \{1, 2, 3, 4, 5, 6, 8, 9\}$ . Find the members of set S.

10.Subtract 2x - 4 from 5x - 4.

11. Rose bought a blouse at shs.20,000 and later sold it making a profit of 25%. What was her selling price?

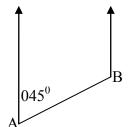
12. A wife waited for her husband at Entebbe airport from 10:10pm to 1:20a.m the following day. How long did she wait?

13. Find the area of the sector below.



14. The mean age of 6 children is 13 years. The total age of two of the children is 27. Find the average age of the 4 other children.

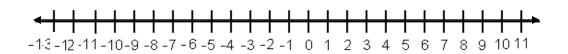
15. Given the figure



find the bearing of **A** from **B**.

# 16. Use a number line below to multiply. **Kampala Mathematics Club**

-3 x 4



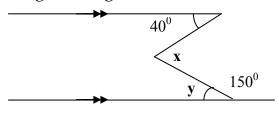
17. A new moon appeared on Wednesday. If it is to appear again after 26 days, on which day of the week will it appear?

19. Work out: 36 – 3.7 + 2.24

20. Find the product of the supplement of 60° and the complement of 33°.

#### **SECTION B. (60 marks):**

21. Using the diagram below find the value of;



a) x

(2 marks)

b) y

(2 marks)

22. The table below shows how a motor cyclist travelled from town R through towns Q and S to down P. study it and use it to answer the questions that follow.

Town	Arrival	Departure	
R		07:15	
Q	0830hrs	08:45hrs	
S	09:35hrs	09:50hrs	
P	10:20hrs		

a) How long does the motor cyclist take to reach town **S** from **Q**?

(1 mark)

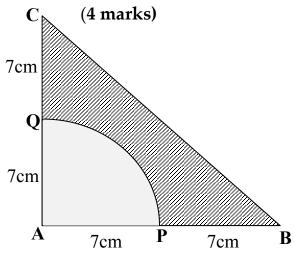
b) Find the total time he took resting on stations.

(2 marks)

c) If the distance from town  ${\bf R}$  to town  ${\bf P}$  is 140km. Calculate the average speed. (2 marks)

23. The diagram represents a cardboard in the form of a triangle.  $\overline{AB} = \overline{AC} = 14$ cm and angle  $BAC = 90^{\circ}$ .

Find the area of the shaded part. ( $\pi = \{EMBED Equation.3\}$ 



- 24. The head master gave out a cash bonus to classes for outstanding performance on assembly as indicated below.
  - (a) Primary four received 18% of the money he had.
  - (b) Primary five received shs. 500,000.
  - (c) Primary six received 27% of the cash.
  - (d)Primary seven received 30% of the cash he had.

Find the total amount of money that the head master gave to all the four classes.

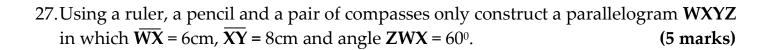
(5 marks)

25. A P.7 pupil was sent to the market with a note of shs.50,000 to buy the items shown below in the table. (5 marks)

#### a) Complete the table

Item	Price	Amount
3.5kg of sugar	Shs.3000 per kg	
2 loaves of bread	Sh	Sh.8,000
2kg of meat	Sh	Sh
1 tin of margarine	Sh.4,500	Sh.4,500
	Total expenditure	Sh

	b) How much did he spend altogether if he received change of shs.1,000?	(2 marks)
26	6.Mr. Lusisi drove from town <b>A</b> to town <b>Z</b> for 3 hours at a speed of 60km per left town <b>Z</b> at 10:00a.m and drove back to town <b>A</b> on the same road at a ste of 90km per hour.	
	c) At what time did Mr. Lusisi arrive at town <b>A</b> ?	(3 marks)
	d) Work out his average speed for the whole journey.	(2 marks)



b) Measure the length of  $\overline{XZ}$ .

(1 mark)

28.a) Solve the inequality: 3 - { EMBED Equation.3 } > 4 (2 marks)

b) Solve: 2(3x-1)-4(x-1)=8

(2 marks)

29. Regions <b>A</b> , <b>B</b> , <b>C</b> , <b>D</b> , and <b>E</b> have a population of <b>four</b> million, <b>three</b> million million, <b>four</b> million and <b>three</b> million people respectively. Construct a prepresent this information.	
30.a) Find the time after which the simple interest on sh.200, 000 at 5% a amount to sh.300, 000.	year will <b>(2 marks)</b>
b) A porter earns sh.35,000 every working hour. In a day he works from 1:30p.m. How much money did he earn if he worked for 5 days?	8:30a.m to ( <b>2 marks</b> )

29 Approved: 0777 023 444

31. At one time the number of children in primary schools were as follows;

Name of School	Number of pupils
ABD	400
Bwala	600
Nkoni	360
Kimanyi	800
Matale	650
Masaues	250

a) Find the mean number of children for these schools.

(2 marks)

b) Given that a = 2b - 1. Complete the table below

(2 marks)

b	0	1	2	3	4	5
a	-1			5		

32.Tom has three daughters, Emily, Rose and Cate. Rose is 3 years youn Emily. Cate is a half the age of Rose and the total <b>age</b> of the girls is 28	C
a) How old is each of the girls?	(2 marks)
b) How old will Rose be 10 years from now?	(2 marks)