

# MY MATHEMATICS PRACTICE BOOK

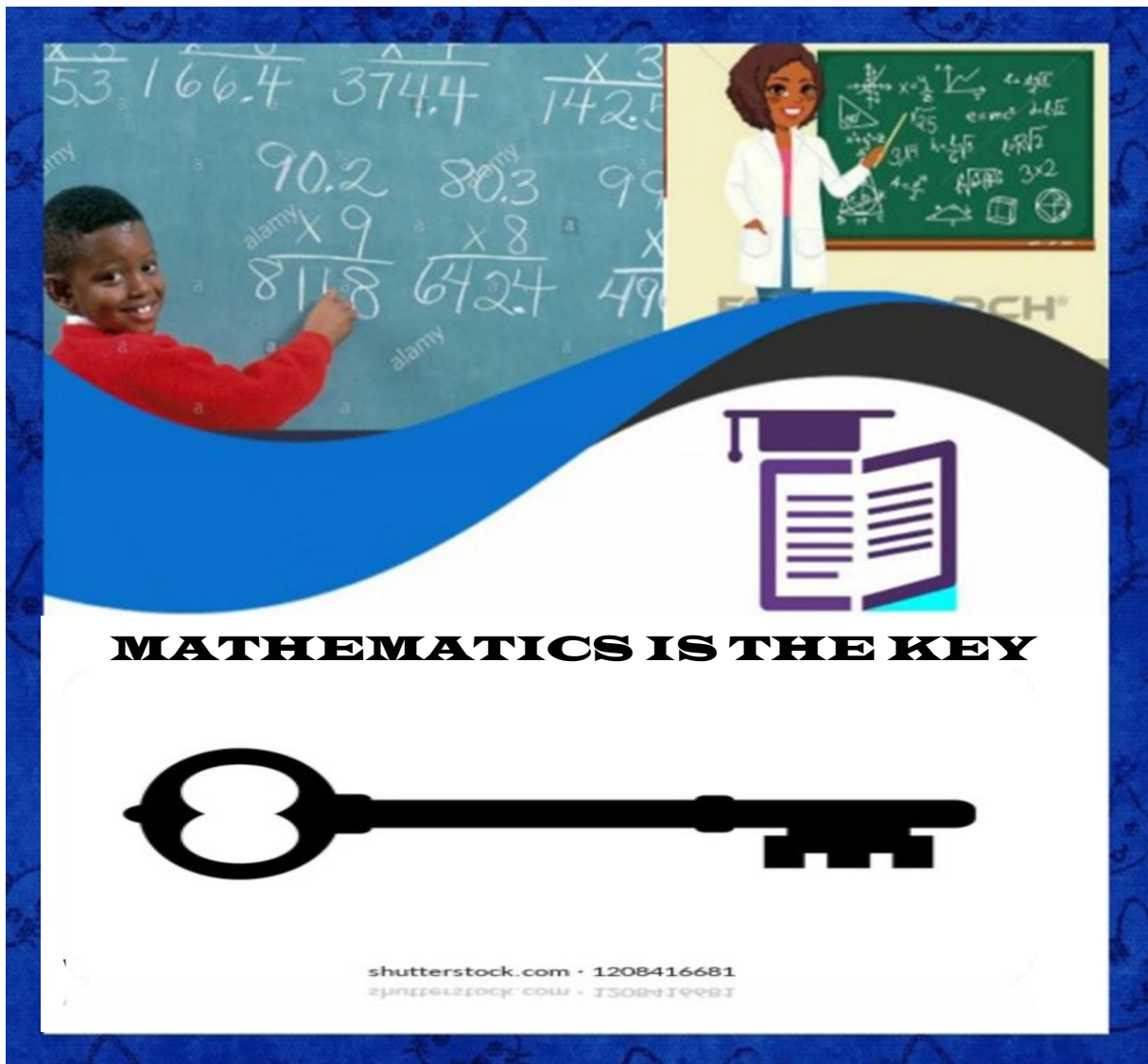


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CONTACT: 0776 383249/0751-738256

Email: [nsubugaregan163@gmail.com](mailto:nsubugaregan163@gmail.com)

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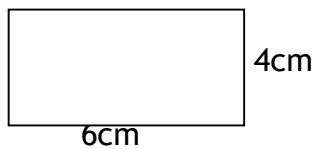
NAME: .....

**SECTION A: 40 MARKS (2 marks each)**

1. Add: 
$$\begin{array}{r} 5 \quad 0 \\ + 3 \quad 9 \\ \hline \end{array}$$

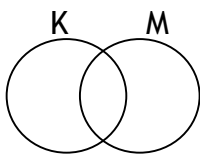
2. What is the place value of 4 in 462?

3. Work out the area of the figure below.



4. What number has been expanded?  
 $(3 \times 100) + (4 \times 10) + (6 \times 1)$

5. Shade  $K \cup M$





6. Find the next number  
 0, 3, 6, 9, \_\_

7. Subtract:  $\frac{3}{5} - \frac{2}{5}$

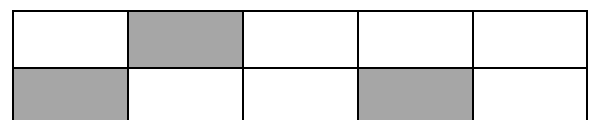
8. Write as multiplication.  
 $6 + 6 + 6 + 6 = \_\_ \times \_\_$

9. 1 book costs sh. 500. How much do 5 books cost?

10. If  stands for 5 balls, how many balls are represented by ?

11. Given that set  $K = \{\text{Days of the week}\}$   
 Find  $n(K)$

12. What fraction is the unshaded part?

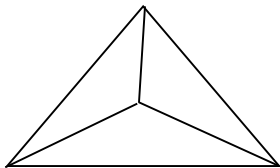


V13. Write 463 in words.

14. How many legs do 7 cows have?

15. Change 5kg to grams.

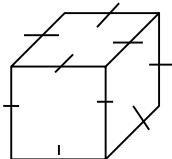
16. How many triangles can you see in the figure below?



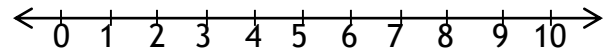
17. Find the missing number.

$$\square - 8 = 4.$$

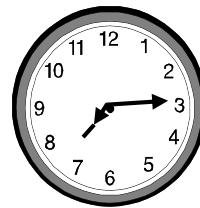
18. Name the figure below.



19. Use a number line to add  $4 + 3$ .

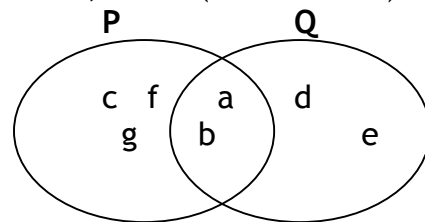


20. What time is shown on the clock face below?



**SECTION B: (60 MARKS)**

21. Given; (1 mark each)



(a) List the elements of set P

$$P = \{ \quad \quad \quad \}$$

(b) List the elements of set Q

$$Q = \{ \quad \quad \quad \}$$

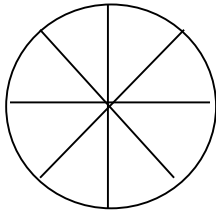
(c) List the elements of  $P \cap Q$

$$P \cap Q = \{ \quad \quad \quad \}$$

(d) List the elements of  $P \cup Q$

$$P \cup Q = \{ \quad \quad \quad \}$$

22. Use the figure below to answer the questions.



- (a) Shade  $\frac{3}{8}$  of the above figure. (2 marks)
- (b) What is the unshaded fraction? (1 mark)
- (c) A teacher marked  $\frac{2}{7}$  of the books in the morning and  $\frac{4}{7}$  in the afternoon. What fraction of the books did the teacher mark altogether? (2 marks)

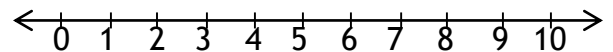
23. Study the price list below and answer the questions below.

Item	Price
a ruler	Shs. 600
a book	Shs. 800
a cake	Shs. 1000
a plate	Shs. 1500

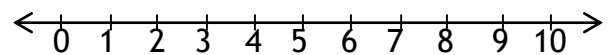
- (a) Find the cost of 2 cakes. (2 marks)
- (b) How much will Mary pay for a book and a ruler? (2 marks)
- (c) What is the most expensive item on the list? (1 mark)

24. Work out the following using a number line. (2 marks each)

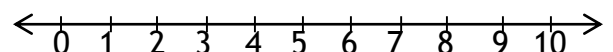
(a)  $5 + 3 = \underline{\quad}$



(b)  $6 - 2 = \underline{\quad}$



(c)  $4 \times 2 = \underline{\quad}$



25. Given the number 4138.

(a) Complete the table below.

(1 mark each)

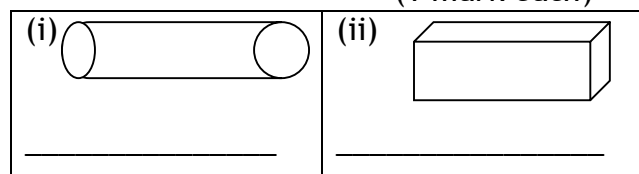
Digit	Value
4	$4 \times 1000 = 4000$
1	_____
3	_____
8	_____

(b) Find the sum of the values of 4 and 3 in the number above.

(2 marks)

26a) Name the following shapes.

(1 mark each)



(b) Draw these shapes

(i) Square	(ii) Triangle

(2 marks)

(1 mark)

27. (a) Complete the table

(1 mark each)

Weeks	1	2	___	4	___
Days	7	___	21	___	56

(b) How many months are in 3 years?

(2 marks)

28. Use  $>$ ,  $<$  or  $=$  to complete the

statements correctly. (1 mark each)

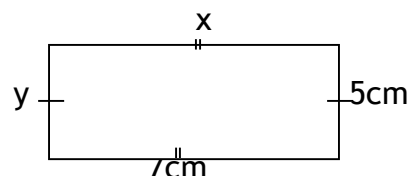
(a) 60 min \_\_\_\_\_ 1 hr.

(b)  $4 \times 2$  \_\_\_\_\_  $4 + 2$

(c) 19 \_\_\_\_\_ 91

(d) 13 objects \_\_\_\_\_ 1 dozen.

29. Study the figure below and use it to answer the following questions.



(a) Name the figure. (1 mark)

(b) Find the value of; (1 mark each)

(i)  $x$

(ii)  $y$

(c) Work out the distance around the figure. (2 marks)

30. Complete the magic square below.

8	1	6
a	5	b
4	c	d

(a) Find the magic sum. (2 marks)

(b) Find the value of; (1 mark each)

(i)  $a =$

(ii)  $b =$

(iii)  $c =$

(iv)  $d =$

31. Find the missing numbers. (1 mark each)
















(a)  $\square + 4 = 9$


(b)  $\square - 5 = 7$

(c)  $6 \times \square = 18$

(d)  $32 \div \square = 8$

32. The pictograph below shows the number of boys in Nsawo P/s. Use it to answer the questions below.

Class	Number of Boys
P.1	  
P.2	   
P.3	    
P.4	  

Scale:  represents 10 boys.

- (a) Which class has the biggest number of boys? (1 mark)
- (b) How many boys are in Primary two? (2 marks)
- (c) What is the total number of boys in P.4 and P.3? (2 marks)

**SECTION A:**

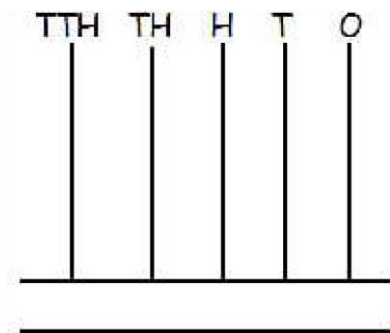
1. Subtract: 43 from 462.

2. Change 200 cm to metres.

3. Find the missing numbers in the sequence below :

2, 3, 5, 7, \_\_\_\_\_, \_\_\_\_\_

4. Show 3,021 on the abacus below.



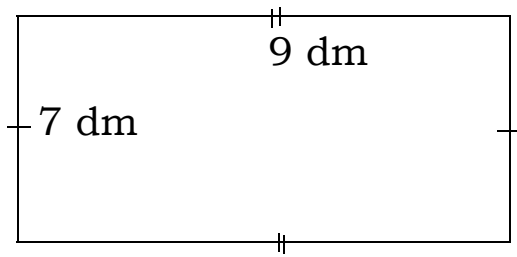
5. Find the missing number in:

$$\boxed{\phantom{000}} \times 3 = 105.$$

6. Show correctly a quarter to nine in the morning on a clock face.



7. Find the area of the figure below:

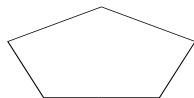


8. Work out:  $5\frac{1}{4} + 6\frac{1}{4}$ .

9. Given that set  $M = \{\text{even numbers less than ten}\}$ ; find the number of subsets of  $M$ .

10. The unit cost of a bag is sh. 3,600, how many such bags can Emmanuel buy with sh. 7,200?

11. Name the shape below:



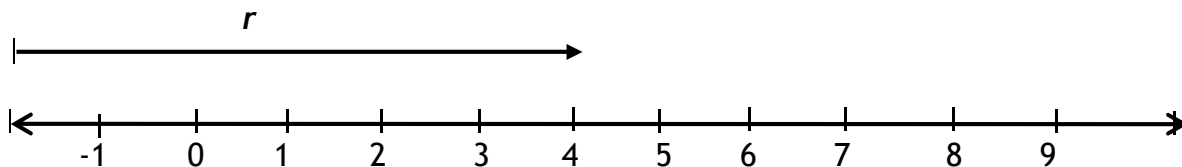
\_\_\_\_\_

12. Sophia sells oranges in groups of threes for sh.500 each.  
How much money will she get if she has 15 such groups?

14. Work out:  $\begin{array}{r} \text{kg} \qquad \text{g} \\ 15 \qquad 650 \\ + \quad 5 \qquad 805 \\ \hline \end{array}$

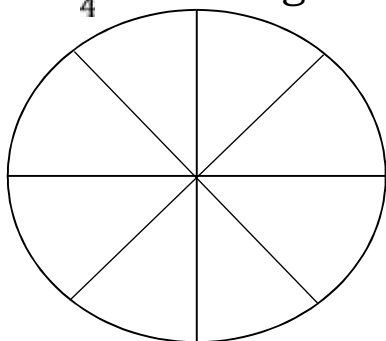
15. Using a ruler, sharp pencil and a pair of compasses only construct an angle of  $90^\circ$  in the space below:

16. Write the value of  $r$  on the number line below:



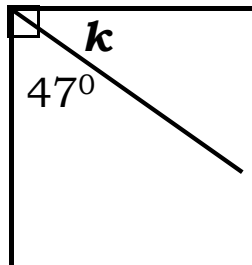
$r =$  \_\_\_\_\_

13. Shade  $\frac{3}{4}$  of the figure below:



17. Round off 6,805 to the nearest hundreds.

18. Find the value of  $k$ .

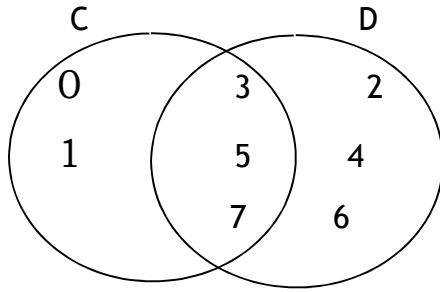


19. James bought a goat for sh. 85,000 and sold it for sh. 97,000. Calculate the profit he got.

20. If  represents 250 books. How many books are represented by      ?

**SECTION B: (60 MARKS)**

21. Use the Venn- diagram below to answer the following questions:



a) List all the members of set C. (1 mark)

b) Find:  $C \cap D$  (1 mark)

c) How many members has set D-C? (2 marks)

22. Ashifack is 18 years old. Ashia is 7 years older than Ashifack.

a) Find the age of Ashia? (1 mark)

b) Calculate their total age? (2 marks)

c) How old was Ashifack ten years ago? (2 marks)

23 In a group of 40 pupils,  $\frac{1}{4}$  of them like swimming and the rest like playing football.

(a) What fraction of the pupils like playing football?

**2 marks)**

(b) Find the number of pupils who like:

(i) swimming

**(2 marks)**

(ii) football

**(2 marks)**

24. Abby gave mangoes to his friends as follows:

Phiona got 58 mangoes, Mary got 104 mangoes and Peninah got 26 mangoes.

(a) Who got the least number of mangoes? **(1 mark )**

(b) How many mangoes did Abby give to his friends altogether? **(1 mark )**

(c) Find the difference between the number of mangoes Mary and Peninah got. **(2 marks)**

25. Mr. Joram had the following number cards:

6

0

5

7

(a) Form the smallest four digit number using the above digits. *(1 mark)*

(b) Form the largest four digit number using the above digits. *(1 mark)*

(c) Find the value of 5 in largest number formed. *(2 marks)*

26. Use the shopping list below to answer the following questions:

Items:   unit   cost:

1 packet of salt   sh. 800

1 kg of sugar   sh. 3,600

1 bar of soap   sh. 3,000

(a) Find the total cost of a kg of sugar and 2 bars of soap. *(2 marks)*

(b) How much will I pay for 4 packets of salt?   *(2 marks)*

(c) Calculate the total cost of 1 kg of sugar, 1 packet of salt  
and 1 bar of soap.   *(1 mark)*

27.(a) A meeting started at 9:10 a.m. and ended at 9:50 a.m. How long was the meeting?   *(2 marks)*

(b) Convert  $3\frac{1}{2}$  hours in to minutes.   *(2 marks)*

(c) Subtract: (2 marks)

Hrs.	Mins.
6	25
- 4	45
<hr/>	

28. Simplify:

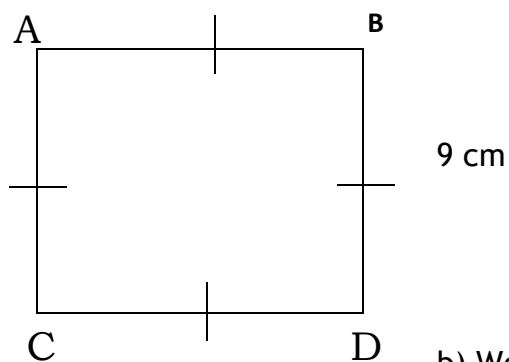
(a)  $3m + 5t - m + 4t$  (2 marks)

(b) Solve: (2 marks @ )

(i)  $h + 7 = 21$

(ii)  $49 \div y = 7$

29. The diagram below is of a square. Use it to answer the following questions:



a) Find the length of the line segments:

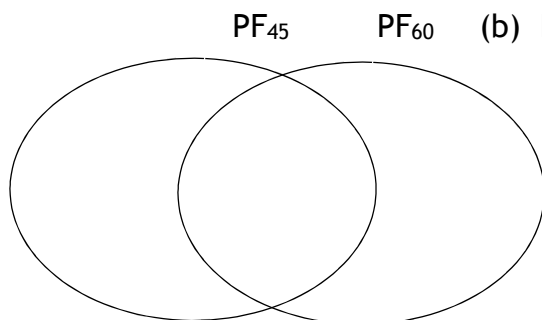
$CD = \underline{\hspace{2cm}}$  (1 mark)

b) Workout the area of the figure. (2 marks)



c) Calculate the distance the figure. (2 marks)

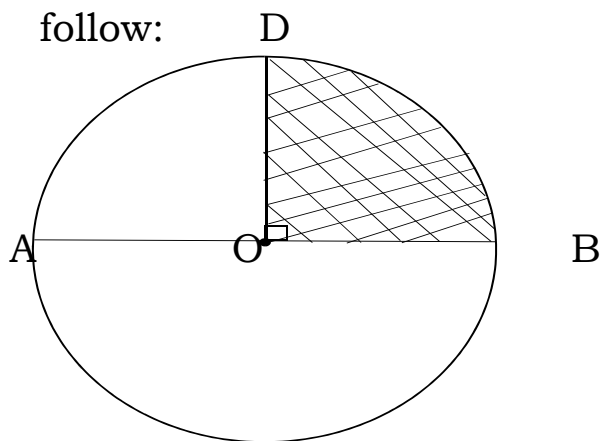
30. (a) Given  $PF_{45} = \{3_1, 3_2, 5_1\}$  and  $PF_{60} = \{3_1, 2_1, 2_2\}$ ,  
Show them on the Venn diagram below: (3 marks)



(b) Find the GCF of 45 and 60 using the Venn diagram. (1 mark)

(c) Find the L.C.M of 45 and 60. (2 marks)

31. Study the figure below and answer the questions that follow:



(a) Name the lines marked:


(i) AB (1 mark)









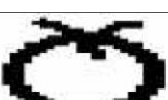
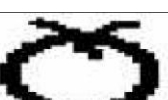
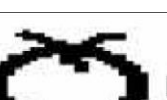
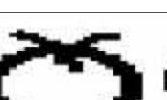
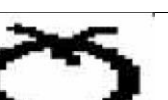








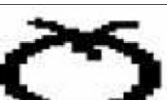
(ii) OD (1 mark)

(b) Name the shaded part of the figure above (1 mark)

\_\_\_\_\_

(c) If  $OD = 14$  cm, find the length of AB. (2 marks)

32. Given  stands for 5 oranges. Study the weekly sale for John and answer the questions

<i>Days:</i>	<i>No of oranges:</i>
<i>Sunday</i>	   
<i>Monday</i>	
<i>Tuesday</i>	  
<i>Wednesday</i>	    
<i>Thursday</i>	   
<i>Friday</i>	 
<i>Saturday</i>	  

- (a) How many oranges were sold on Thursday? (1 mark )
- (b) Find the total number of oranges he sold in the seven days of the week.  
(1 mark )
- (c) How many more oranges did he sell on Wednesday than Thursday? (2 marks)

**SECTION A: (40 MARKS)**

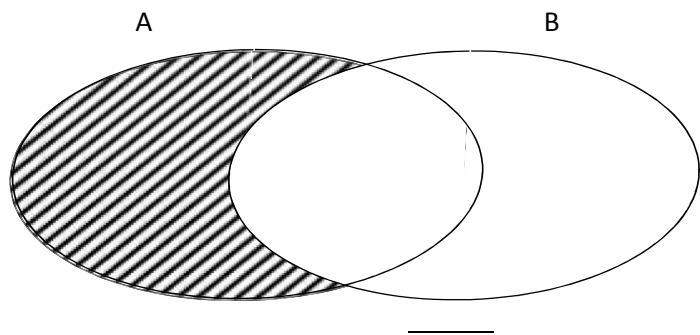
1) Multiply:  $24 \times 3$

2) Write 2,020 in words.

3) Think of a number, add 14 to it and the sum is 21. What is the number?

4) Find the sum of the next two numbers in the sequence,  
1, 4, 9, 16, \_\_\_\_\_, \_\_\_\_\_

5) Using symbols, describe the shaded part of the Venn diagram below.



6) Draw a line segment PQ = 4.5 cm

7) Using a number line, multiply:  $3 \times 4$ .


8) Work out:  $\frac{2}{3} - \frac{1}{4} =$

9) Kato ran round a rectangular field twice. If it was measuring 9m long and 5m wide. Calculate the total distance he covered.

10) A trader sold a try of eggs at sh. 1,200 making a profit of sh. 2,500. Find the cost price.

11) Add :

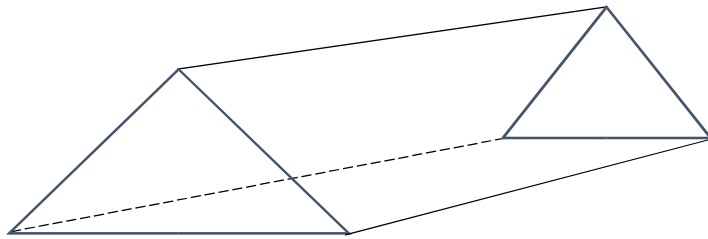
Hrs.	Mins.
7	30
+ 4	55

12) If  represent 9 flowers. Draw pictures to represent 27 flowers.

13) A dice was rolled once. Find the probability that a prime number appeared on top.

14) Find the number that has been prime factorized to get  
 $23 \times 3 \times 52$

15) Name the solid figure drawn below.



16) Write the expanded number below in Roman numerals :  
 $(9 \times 10^1) \times (7 \times 10^0)$

17) Express  $5\frac{2}{3}$  as an improper fraction.

18) The Ministry of Health gave out 3,535 masks to 5 hospital. How many masks did each hospital get?

19) Simplify:  $m + 2y + 2m + y$

20) Convert 2kg to grams

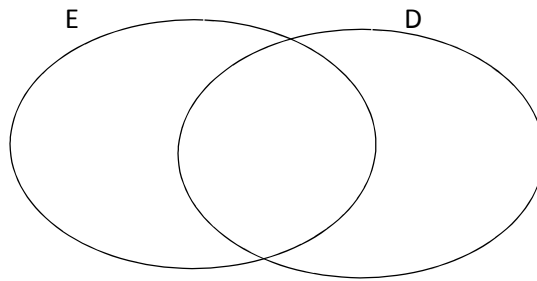
**SECTION B: 60 MARKS**

21) Given that  $D = \{\text{All even numbers less than } 18\}$

$$E = \{1, 3, 6, 10, 15\}$$

(a) List all the elements of set D.

(b) Represent the above pair of sets on the Venn diagram below:



(c) Find the number of proper subsets in the E.

22) Given the number 47, 358; (a) Expand the numeral in value form.

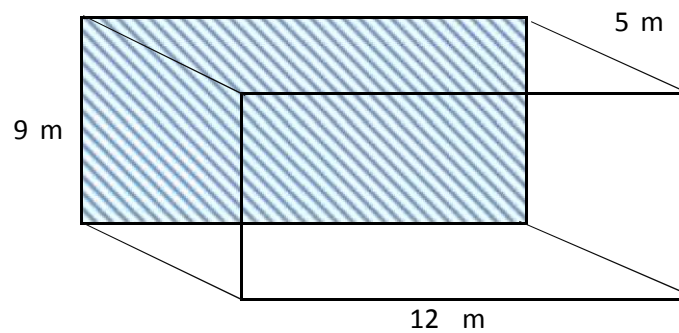
(b) Find the difference of the values of 7 and 5 in the above numeral.

23) In a class of 105 pupils,  $\frac{2}{5}$  of them are girls and the rest are boys.

(a) Find the fraction of boys

(b) How many girls are in that class?

(c) How many more boys than girls are in that class? 24) Study the solid figure below and answer the questions that follow:



(a) Write the number of vertices on the above figure

(b) Find the area of the shaded face.

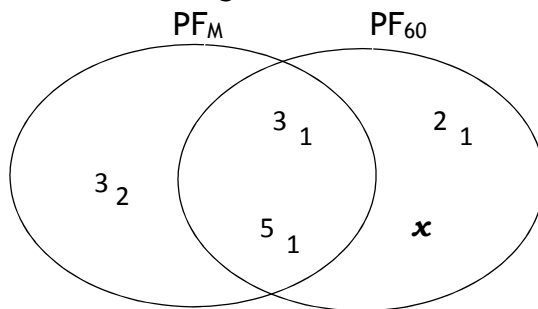
(c) Calculate the volume of the figure above.



25) Give that  $a = 4$ ,  $b = a$  and  $c = 7$ . Find the values of the following:

- a)  $a + b + c$       b)  $\frac{a}{2a}$       c)  $3b^2$

26) Use the Venn diagram below to answer the questions that follow:



(a) Find the value of :

(i)  $M$

(ii)  $x$


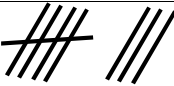



(b) Find the L.C.M of  $M$  and 60.

(c) Work out the GCF of  $M$  and 60

27) (a) Change 150 minutes to hours.

(b) An examination started at 8: 20 a.m. and ended at 10:05 a.m. How long did it take?

28) The table below shows the number of covid-19 patients discharged from hospitals in a week. Study it and answer the questions that follow:

<b>Days:</b>	<b>No of patients:</b>
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

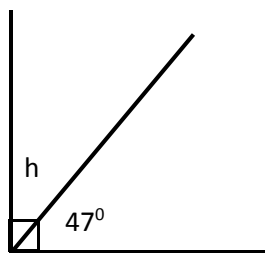
a) How many patients were discharged on Thursday?

b) On which day was the highest number of patients discharged?

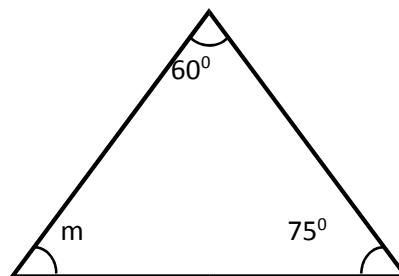
- c) How many more patients were discharged on Sunday than Thursday?
- d) Find the total number of patients discharged in the whole week.

29) Find the values of the unknown angles below

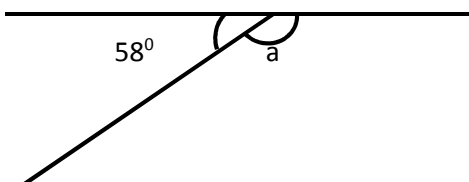
( a )



( b )



( c )



30) Use  $>$ ,  $<$  or  $=$  to complete the following (show the working)

( a )  $\frac{1}{2}$  \_\_\_\_\_  $\frac{1}{3}$

( b ) fortnight \_\_\_\_\_  $3 \times 2$

( c ) XL \_\_\_\_\_ LX

31) Work out the following :

a)  $4,987 + 894$

(b) sh. 50,000

-sh. 37,500

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(c)  $42 \times 24$

32) Sophia went to the shop with two notes of ten thousand shillings and bought the following items

*3 kg of flour at sh.3,000 each*

*2 liters of cooking oil at sh. 4,000 per liter*

*A loaf of bread at sh. 2,200*

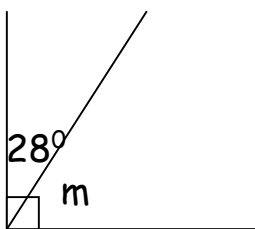
(a) Workout her total expenditure.

(b) Calculate her change.

**SECTION A (40 marks)**

1. Subtract 27 from 93.
2. Write 34 in Roman Numerals.
3. Given that  $A = \{1, 2, 3\}$ . Find the number of subsets in set A.
4. Work out:  $4 - -9$

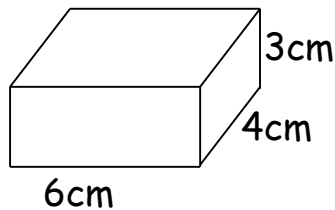
5. Find the size of angle marked m in the figure below.



6. Musa has a string measuring 0.125km. Express this length in metres.
7. Find the next number in the sequence; 2, 3, 5, 7, \_\_\_\_

8. A boy scored the following marks in three consecutive tests; 6, 9 and 12. What was his average score?
9. Given that  $g = 2$  and  $h = 3$ , find the value of  $2g + 3h$ .
10. Convert  $22_{\text{five}}$  to base ten.

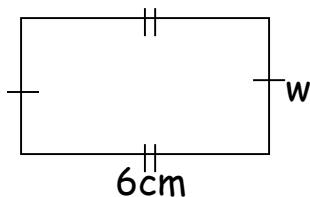
11. Calculate the volume of the figure below.



12. In the space below, draw an angle of  $70^\circ$  using a protractor, ruler and a well sharpened pencil.
13. Simplify:  $\frac{1}{3} + \frac{2}{5}$
14. Write “forty thousand forty four” in figures.

15. A car covered a distance of 240km after travelling for 3 hours. Calculate its average speed.

16. The area of the rectangle below is  $30\text{cm}^2$ . Find its width,  $w$  if the length is 6cm.



17. Peter bought 500gm of sugar at shs. 2000 a kg. How much money did she pay for sugar?

18. Change  $2\frac{1}{2}$  hours to minutes.

19. A milkman packs 20 litres of milk in  $\frac{1}{4}$  litre packets. How many  $\frac{1}{4}$  litre packets does he get?

20. How many dozens are there in 36 items?



**SECTION B (60 marks)**

21. a) A paper factory packs 500 sheets of paper in each ream. Each day a factory makes 1000reams of paper. How many sheets of paper are made each day?

**(2 marks)**

b) Multiply:  $0.3 \times 1.2$

**(2 marks)**

22. Sophia scored the following marks in a series of tests.

70, 60, 40, 60, 80, 50

a) How many tests did she do?

**(1 mark)**

b) What is her modal mark?

**(1 mark)**

c) Work out her range.

**(2 marks)**

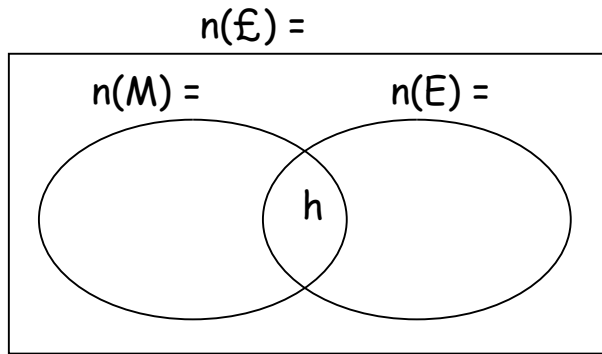
d) Calculate her average mark.

**(2 marks)**

23. In a class of 60 pupils, 32 like Math (M) and 40 pupils like English (E) while h pupils like both.

a) Represent the above information on the Venn diagram below.

(2 marks)



b) How many pupils like both subjects?

(2 marks)

c) How many pupils like only one subject?

(2 marks)

24. In a class of 120 pupils,  $\frac{2}{5}$  of them are girls and the rest are boys.

a) Find the fraction for boys.

(1 mark)

b) How many girls are in that class?

(2 marks)

c) How many more boys than girls are in the class?

**(3 marks)**

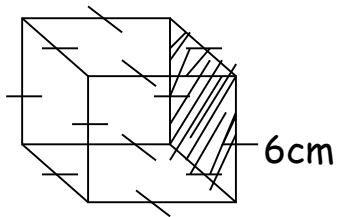
25. a) Solve for y:  $2y - 6 = 6$

**(2 marks)**

b) Simplify:  $2(h + 3m)$

**(2 marks)**

26. The figure below is a cube, answer the questions about it.



a) Calculate the area of the shaded face.

**(1 mark)**

b) Find the volume of the figure above.

**(2 marks)**

c) Work out its Total Surface Area (T.S.A)

**(2 marks)**

27. a) Construct a triangle BCD such that angle CBD =  $60^\circ$ , BC = 6.5cm and BD = 5cm using a ruler, a pencil and a pair of compasses only.

(4 marks)

b) Measure length CD = .....

(1 mark)

28. Nassonko went to the market with shs. 30,000 and bought the following items.

2 kg of sugar at shs. 3400 per kg.

$1\frac{1}{2}$  kg of meat at shs. 8000 per kg.

3 litres of milk for shs.7500.

a) Calculate her total expenditure.

(3 marks)

b) What was her change?

(2 marks)

29. a) Given the number 4932, expand it using;

(1 mark @)

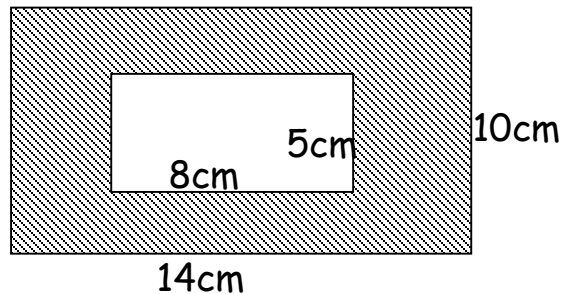
i) Powers of ten

ii) Values

c) Work out: 
$$\begin{array}{r} 324_{\text{five}} \\ + 42_{\text{five}} \\ \hline \end{array}$$

(2 marks)

30. The shape below shows a flower garden. The small garden is in the middle of a big garden. Study it carefully and answer the questions.



a) Find the area of the small rectangle.

(1 mark)

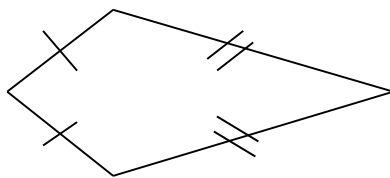
b) What is the area of the big rectangle?

(2 marks)

c) Calculate the area of the shaded part.

(2 marks)

31. a) How many lines of folding symmetry does the figure below have? (Show them by drawing)

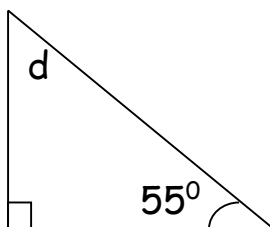


(1 mark)

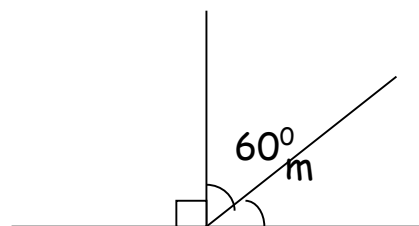
b) Calculate the size of the angles marked with the letters.

(2 marks @)

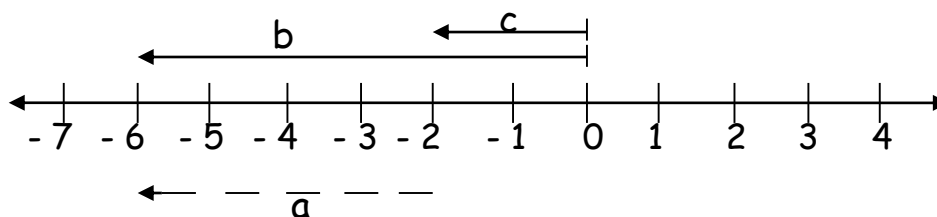
i)



ii)



32. Use the number line below to answer the questions that follow.



a) State the value of

(i)  $c = \dots\dots\dots$  (ii)  $b = \dots\dots\dots$  (iii)  $a = \dots\dots\dots$

(1 mark @)

b) Write the Mathematical statement represented above.

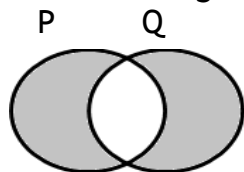
(2 marks)

### SECTION A (40 MARKS)

1. Multiply:  $23 \times 4$

2. Write “Four hundred ninety six” in figures.

3. Describe the shaded region below.



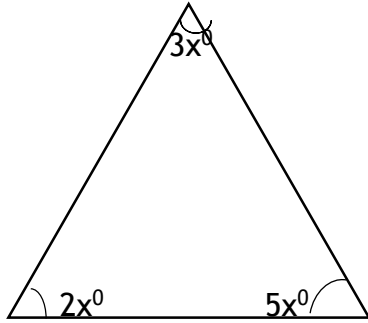
4. Write CXLII in Hindu-Arabic numerals.

5. A taxi carries 14 passengers per trip. How many trips can it make for 70 passengers?

6. Convert 12:15p.m to a 24 hour clock system.
7. Round off 5948 to the nearest hundreds.
8. Use distributive property to simplify:  $(2.5 \times 56) + (2.5 \times 44)$
9. Simplify:  $-6 - +2$
10. Find the greatest common factor (GCF) of 18 and 24.
11. Given the exchange rate as US\$1 = Ug.sh 3000. How much money in Uganda shillings is equivalent to Us\$ 40?
12. Given that  $a = -2$ ,  $b = -3$ , find the value of  $2a + 2b$ .

13. Find the square root of  $6\frac{1}{4}$ .

14. Find the value of  $x$  in the triangle below.



15. Change  $231_{\text{four}}$  to a decimal base.

16. A bus was driven at a speed of  $72\text{km/hr}$ . Express its speed in metres per second.

17. Find the next number in the sequence below;

2, 4, 7, 12, 19, \_\_\_\_\_

18. Solve for:  $3(x - 2) = 9$

19. A driver covered  $\frac{3}{5}$  of the journey. If he still had  $20\text{km}$  to cover. How long was the whole journey?



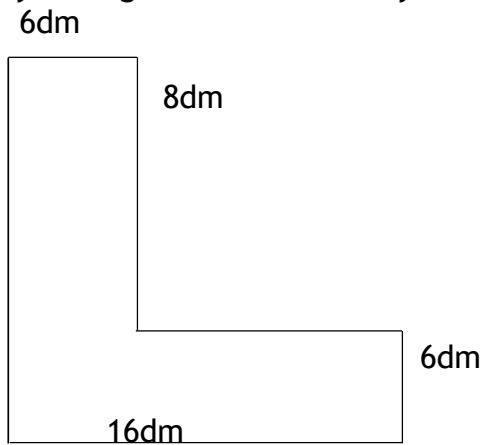
20. Simplify:  $y^5 \div y^3$

**SECTION B (60MARKS)**

21. a) Simplify:  $\frac{0.24 \times 1.8}{0.4 \times 0.9}$  (3marks)

b) Workout:  $\frac{1}{2} + \frac{4}{9} \div \frac{2}{3}$  (2amrks)

22. Study the figure below carefully and answer the questions that follow.



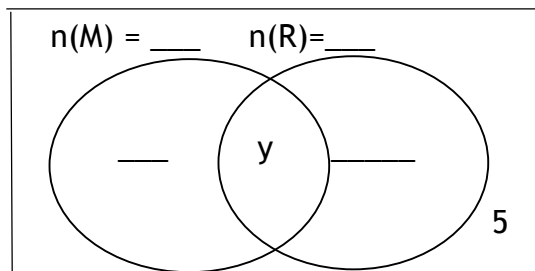
a) Find the perimeter of the above figure. (3marks)

b) Workout its area. (2mark)

23. In a class of 55 pupils, 30 pupils eat Matooke (M), 25 eat Rice (R), and some pupils eat both while 5 pupils do not eat any of the two.

a) Show the above information on a Venn diagram. (2marks)

$$n(\Sigma) = 55$$



b) Find the value of y. (2marks)

c) What is the probability that a pupil picked at random eats only one type of food? (1mark)

24. John was given number cards 

5
---

2
---

4
---

 and was told to form numbers.

a) Write all the three digit numbers formed. (3marks)

b) What is the sum of all the even numbers formed? (2marks)

25. Two YY buses leave Mbale to Kampala and Lira after every 30 minutes and 40 minutes respectively.

a) After how long will the buses leave together? (3marks)

- b) If they left together at 8:30a.m, when will they leave together again?  
(2marks)

26. The table below shows marks scored by the pupils in a Mathematics test. Use it to answer the questions that follow.

Marks scored	70	50	60	80
Number of pupils	3	2	4	1

- a) How many pupils did the test? (1mark)
- b) What is the modal mark? (1mark)
- c) Calculate the average mark scored. (3marks)

27. a) Given that  $23_p = 15_{\text{ten}}$ , find base p. (3marks)

- b) If today is Wednesday, what day of the week will it be after 65 days?  
(2marks)

28. The table below shows the items Livingstone bought from the market. Study it carefully and answer the questions that follow.

Item	Quantity	Price	Amount
Meat	2kg	Sh. 8000 per kg	Shs.....
Cooking oil	.....litre	Sh. 4000 per litre	Shs. 2000
Posho	3kg	Sh..... per kg	Shs. 6000
Rice	1¼ kg	Sh.....per kg	Shs. 2500
Total expenditure			Shs.....

- a) Complete the table above. (5marks)

- b) If Livingstone remained with sh. 4,500, how much money did he go with? (1mark)

29. a) Using a ruler and a pair of compasses only, construct a regular hexagon of radius 3cm. (3marks)

- b) Workout the distance around the figure. (1mark)

30. A parent had sh. 72,000 for his three children's pocket money. Betty, Jane and James. If he distributed the money in the ratio of 3:5:4 respectively;

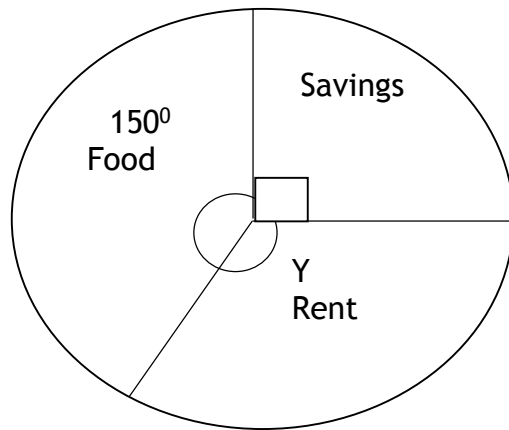
a) How much did each get? (3marks)

b) How much more money did Jane get than Betty? (2marks)

31. a) Solve for X:  $2(2x + 2) - 2(x + 3) = 12$ . (2marks)

b) Solve the inequality  $3m + 4 > m + 8$ . (2marks)


32. The pie-chart below shows how Ms. Phionah spends his monthly salary of sh. 360,000 per month.



- a) Find the value of  $y$ . (1mark)
- b) How much money does he spend on rent? (2marks)
- c) How much more does she spend on food than savings? (3marks)

**SECTION A (40 MARKS)**

1. Workout:  $24 + 35$
2. Write 3,456 in words.

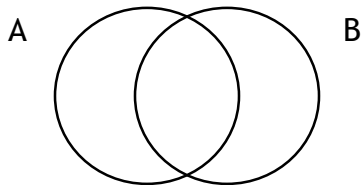
3. Find the number which when added to 15 gives 25.
4. Find the next two numbers in the sequence.  
1, 8, 27, 64, \_\_\_\_\_, \_\_\_\_\_
5. Given that  represent 7 apples, how many pictures will represent 35 apples?
6. Divide.  $0.9 \div 0.3$
7. Brian bought tickets numbered consecutively from AM00401 to AM00500. How many tickets did he buy?
8. If set P has 31 proper subsets, how many elements are in set P?
9. P.7 pupils shared 8 litres of juice getting 200ml each. How many pupils shared the juice?

10. Solve:  $10 - m = 6$ .
11. Using a ruler, pencil and a pair of compasses only, construct an angle of  $150^\circ$ .
12. Find the circumference of a circle whose radius is 14cm. ( $\pi=22/7$ )
13. Simplify.  $-4 - -9$ .
14. A man was facing East and turned clockwise to face South West. Through what angle did he turn?
15. Express 0.75 as a simplified common fraction.
16. Simplify:  $6k + 2h - k - h$ .



17. Express  $211_{\text{five}}$  to base ten.

18. In the diagram below, shade the region representing  $A - B$ .



19. Work out.  $(15 \times 10) - (12 \times 10)$ .

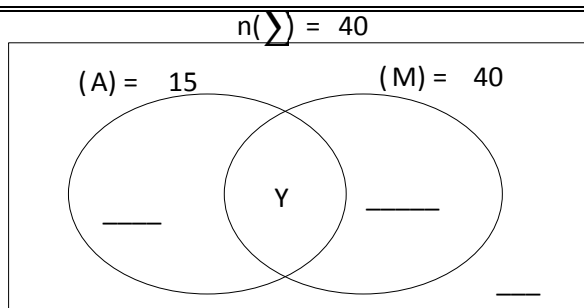
20. A man rode  $\frac{3}{4}$  of his journey then his bicycle broke down. He was left with 15km to reach home. How far is the whole journey?

**SECTION B (60 MARKS)**

21. In a class of 40 pupils, 15 like Art (A), 30 like Math (M), Y like both subjects while 8 do not like any of the two subjects.

a) Complete the Venn diagram below.

(3 marks)



- b) How many pupils like both subjects? (2 marks)
- c) Find the probability of picking a pupil who likes only Math at random. (1 mark)

22. A pavement 180 cm long and 120 cm wide is to be paved with square tiles. Find the length of the largest tile that can be used without any cutting.

(4 marks)

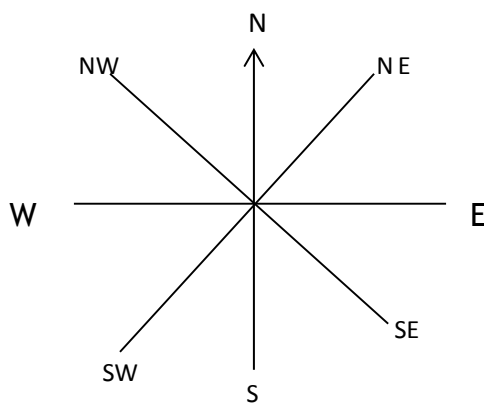
23. a) Write 2369 in scientific notation. (2 marks)

b) A square garden is  $144\text{m}^2$ . What is the length of each side? (2 marks)

24. The median of three consecutive integers is - 2.  
a) Find the integers. (4 marks)

b) Work out the range of those integers in 24(a) above. (1 mark)

25. The diagram below shows a magnetic compass. Use it to answer questions below.

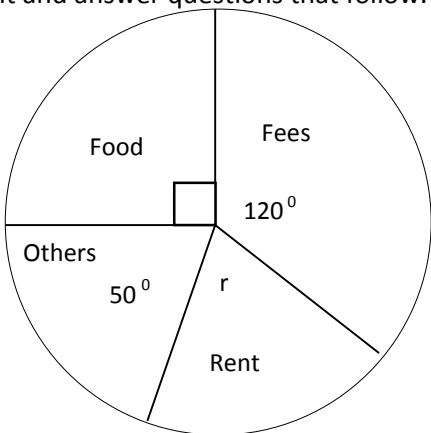


a) If Monica turns from SW to E clockwise, what angle will she have turned? (2 marks)

b) Find the smallest angle formed between NE and SE. (2 marks)

c) If William turned from West through  $135^\circ$  anti-clockwise. Which direction did he face?  
(2 marks)

26. The pie-chart below shows how Mr. Ggayi used his salary of sh. 360,000. Study it and answer questions that follow.



a) Find the value of r. (2 marks)

b) How much money is spent on others? (2 marks)

c) How much more is spent on fees than food? (2 marks)

27. a) Work out.  $\frac{0.36 \times 1.2}{0.9 \times 0.06}$  (3 marks)

b) Find the multiplicative inverse of  $\frac{3}{4}$ . (2 marks)

28. Timothy used the bill below to make his shopping.

a) Complete the bill correctly. (4 marks)

Item	Quantity	Unit cost	Total cost
Sugar	_____kg	Sh. 3,000 per kg	Sh. 6,000
Pencils	5	Sh. 500 each	Sh. _____
Sweets	5	Sh. _____ each	Sh. 4000
Total expenditure			Sh. _____

b) If he went with sh. 13,000, how much was his change? (2 marks)

29. a) Work out:  $2 - 5 =$  \_\_\_\_\_ (finite 7) (2 marks)

b) If today is a Tuesday, what day of the week will it be 18 days from now?  
(2 marks)

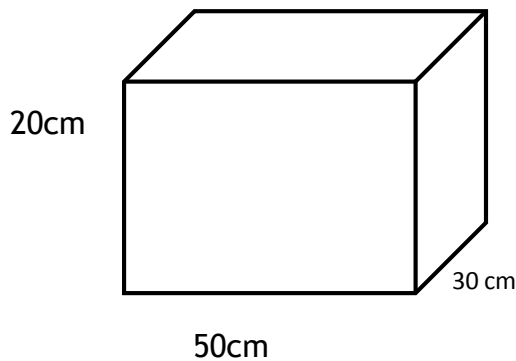
30. a) Use a pencil, a ruler and a pair of compasses only to construct a quadrilateral (parallelogram) PQRS where  $PQ = 8\text{cm}$ ,  $QR = 5\text{cm}$ , angle  $SPQ = 60^\circ$  and angle  $PQR = 120^\circ$ .

(4 marks)

b) Measure the diagonal QS in cm.

(1 mark)

31. The rectangular tank below is full of water. Use it to answer the questions that follow.



a) Find its volume

(2 marks)

b) Work out its capacity.

(2 marks)

32. Janat drove a bus from Gulu to Luweero for 2 hours at a speed of 80km/hr. and later continued to Kampala at a speed of 75km/hr. for 3 hours. Find the average speed for the whole journey. (5 marks)

**Section A.**

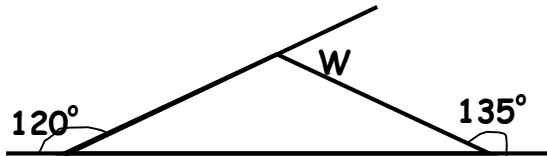
1. Simplify:  $\frac{4}{7} + \frac{4}{7}$
2. Write XCVI in Hindu Arabic numerals.
3. Simplify:  $3k + 4y - 3k - 5y$ .

4. Change 840m to km.
5. Using a pair of compasses construct an angle of  $75^\circ$ .
6. Find the square root of  $\sqrt[3]{\frac{1}{16}}$ .
7. Arafat bought a radio for sh. 60,000 and sold it at a loss of sh.15, 000. At how much did Arafat sell the radio?
8. Express 20cm as a percentage of 1m
9. Find the next number in its sequence.  
3, 8, 6, 11, 9, \_\_\_\_\_, \_\_\_\_\_



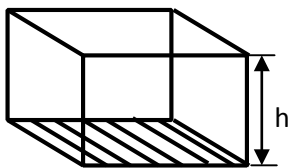
10. Express 2:30 pm in 24 hour clock system.

11. Find the size of angle W.



12. Christine covered 240km in 2 hrs. 30mins. At what speed was she moving?

13. The volume of the figure below is  $72\text{cm}^3$ . If its base area is  $36\text{cm}^2$ . Find its height.



14. What number has been expanded to give;

$$(8 \times 10^{-4}) + (7 \times 10^3) + (4 \times 10^1)$$

15. Round off 86955 to the nearest thousands.

16. Find the range of 3, -4, 5, -6 and 0.

17. Find the unknown base;

$$31_w = 13_{\text{ten}}$$

18. Simplify:  $+4 - +6$ .

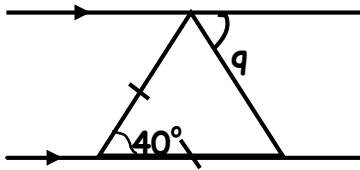
19. Set R has 16 subsets. Find  $n(R)$ .

20. Find the mean of 3y, 0, 2y, 7 and 3

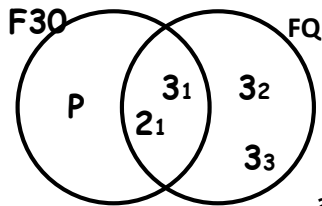
### SECTION B

21. a)  $(X + 40^\circ)$  and  $30^\circ$  are complementary angles. Find the value of  $X$ .  
(3 marks)

- b) Find the size of angle  $Q$ . (2 marks)



22. Below is a Venn diagram, use it to answer questions that follow.



- a) Find the value of  $P$ . (1 mark)
- b) Find the value of  $Q$ . (1 mark)
- c) Work out the L.C.M of 30 and  $Q$ . (2 marks)

23. a) In a basket, there are 11 red balls, 6 blue balls and 9 pink balls.

Find the probability of picking a ball which is;

i) blue (2 marks)

ii) red (2 marks)

iii) pink (2 marks)

24. The circumference of the circle is 132cm.

a) Find its radius. (3 marks)

b) Work out its area. (2 marks)

25. The mean of  $X$ ,  $X-2$ , 6, 5 and 4 is 9.

a) Find the value of  $X$ . (3 marks)

b) Find the range of the number. (2 marks)

26. a) Change  $32_{\text{five}}$  to base two. (3 marks)

b) Subtract:  $402_{\text{five}}$  (2 marks)

$\underline{\quad\quad\quad} - 44_{\text{five}}$

$\underline{\quad\quad\quad}$

27. Candidates scored the following marks;  
50, 75, 60, 75, 80, 60, 75, 90, 80 and 75. (3 marks)

a) Represent the information above on the table below.

Marks scored	60	_____	80	50
No. of pupils	_____	4	_____	_____

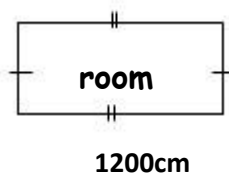
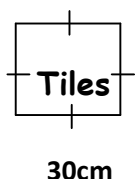
b) Calculate the average mark. (2 marks)

28. A trader borrowed sh.1,200,000 from the bank which offers an interest rate of 20% p.a for 2 years.

a) How much interest did he pay? (3 marks)

b) Work out the amount of money he will take back. (2 marks)

29. Tiles were put in a rectangular room as shown below.



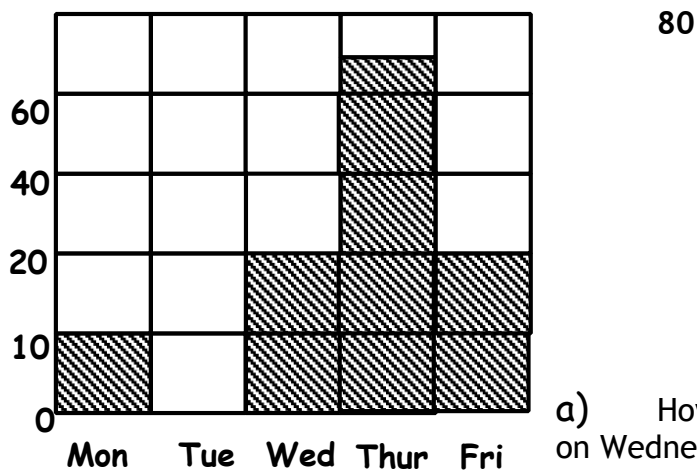
a) How many tiles were put in the room?  
600cm (4 marks)

b) If each tile costs sh13,500. How much was needed to buy the tiles? (1 mark )

30. Using a pair of compasses, a ruler and a sharp pencil only, construct

a) triangle PQR where  $\angle P = 60^\circ$ ,  $\angle Q = 45^\circ$  and  $PQ = 8\text{cm}$ . (5 marks)

31. The graph below shows the number of pupils who were absent in a certain week in a P.4 class of 65 learners.

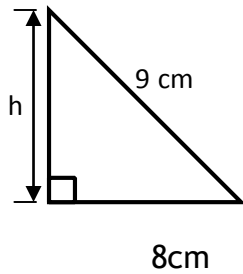


a) How many pupils were present on Wednesday? (1 mark)

b) On which day was the highest number of pupils present? (2 marks)

c) Work out the mean attendance of the class in the week. (2 marks)

32. The area of the figure below is  $48\text{cm}^2$ .



a) Find its height ( 3 marks)

b) Work out its perimeter. ( 2 marks)

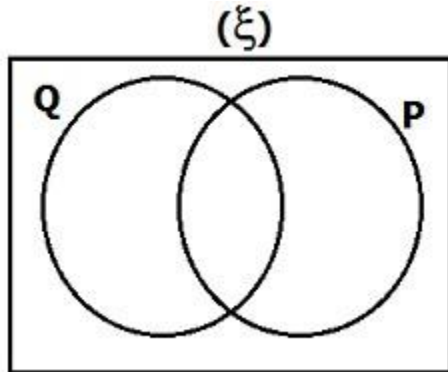
**SECTION A : 40marks**

1. Work out:  $345 + 132$
2. Write 94 in Roman numerals.

3. Simplify:  $7m - 4n + m + 5n$ .

4. Find the next two numbers in the sequence: 1, 8, 27, 64, \_\_\_\_\_, \_\_\_\_\_.

5. Shade the complement of set P in the diagram.

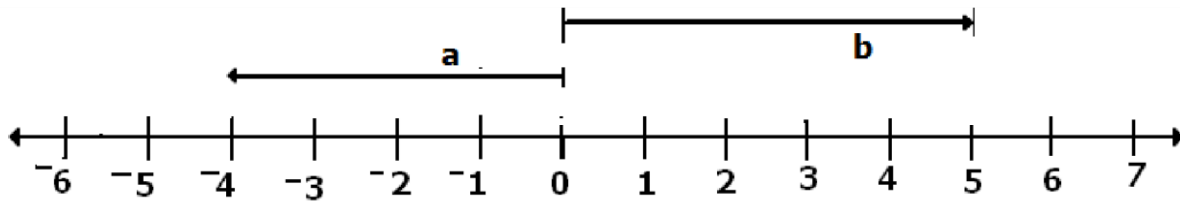


6. Work out:  $0.875 + 0.25$ .

7. A trader sold a shirt at sh. 32000 making a loss of sh.3000. How much had he bought the shirt?



8. Use the number line drawn below to answer the following questions.



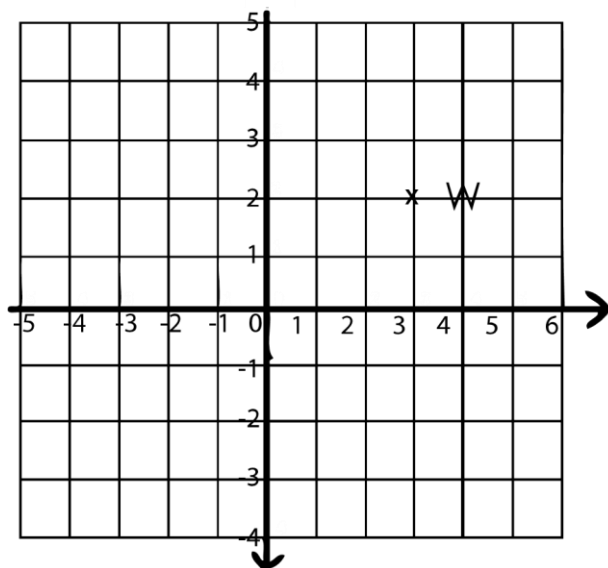
9. What are the integers represented by the arrows on the number line above?

(i)  $a = \dots\dots\dots$  (ii)  $b = \dots\dots\dots$

10. Using a protractor, a pencil and a ruler only, draw an angle of  $72^\circ$  in the space provided below.

11. Given that  $x=2$  and  $y=5$ , find the value of  $\frac{3x + 4}{y}$

12. Use the Cartesian graph below to answer questions that follow:



(i) State the co-ordinates of point W.

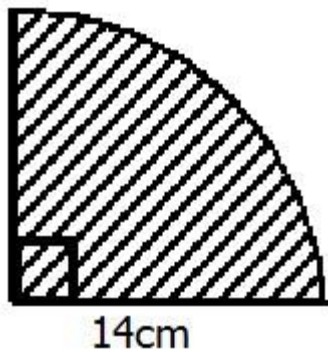
(ii) Plot on the graph point R  $(-2, -4)$

13. Set  $A = \{a, b, c\}$  List down all the proper subsets formed from set A.

14. Work out:  $1\frac{1}{2} \div \frac{2}{3}$

15. Esther covered a distance of 20km for every 2hours. What distance did he cover in 42 minutes?

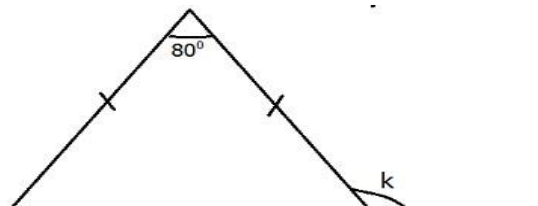
16. Find the distance around the quadrant below. (take  $\pi \frac{22}{7}$ )



17. The price of a radio was increased by 10% to sh.22000. What is the cost price of the radio?

18. What number was expressed in scientific form:  $7.38 \times 10^{-2}$ ?

19. Use the figure below to find the size of angle K.



20. Given that a Japanese yen (¥) 1 is equivalent to Ugandan shillings (Ugsh) 9.15. Convert Japanese ¥55000 to Ugandan shillings.

**SECTION B 60 MARKS**

21. In a family of 10 members, 6 members eat meat (M), 4 members eat both meat and Fish (F) while (y) members eat only Fish.

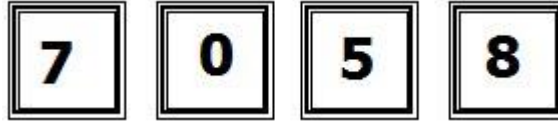
(a) Represent the above information on the Venn diagram. (3mrks)

(b) Find the value of y. (2mrks)

(c) How many members eat fish? (1mrk)

22.

Cards labeled



a packed in the box.

- (a) Arrange the cards in such a way that the largest numeral is formed.

(1mrk)

- (b) Write the numeral formed in (a) above Using exponents. (2mrks)

- (c) What is the sum of the largest and smallest numerals formed?

(2mrks)

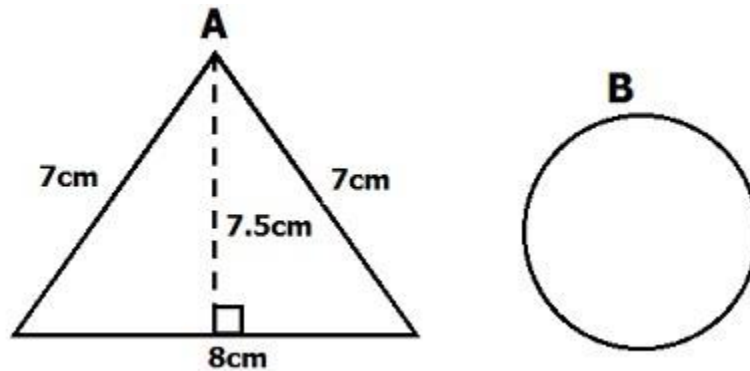
- 23 Isaac used  $\frac{7}{11}$  of his land for crop growing and the rest for animal rearing.

- (a) If he used 6 more hectares of land on crop growing than animal rearing animals, how big in hectares was Isaac's land? (4 marks)

- (b) How many hectares were used for animal rearing? (1mrk)

24. The figures A and B have the same perimeter. Use them to find the area of figure B (Take  $\pi = 22/7$ )

**(5 Marks)**



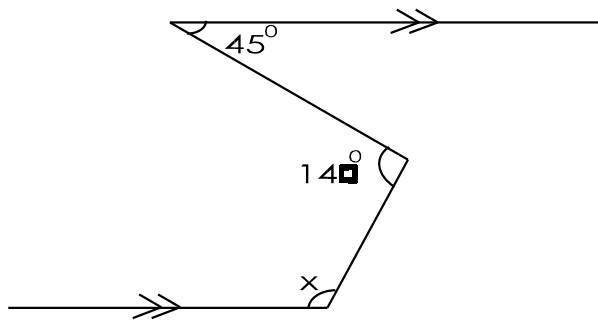
25. A bus travelled from Kabale to Mbarara at a speed of 80km/hr. for 3 hours. It then continued from Mbarara to Kampala in 2hours. If the average speed for the whole journey was 88km/hr.

(a) What is the distance from Kabale to Mbarara. **(2mrk)**

(b) Use the average speed given to find the distance between Mbarara and Kampala. **(3mrks)**

- 26(a) The interior angle of a regular polygon is thrice the size of the exterior angle.  
Name the polygon. (3mrks)

- (b) Using the figure below, find the size of angle x. (2mrks)



27. During athletics competitions a teacher recorded the weight of the participants as follows.

weight in kg	60	50	30	55
number of pupils	1	3	1	2

- (a) How many participants were measured? (1mrk)
- (b) Find the median weight. (2mrks)

(c) Calculate the mean weight of the participants. (3mrks)

28. A tailor uses 6 metres of cloth to make 4 pairs of shorts. He would like to make 12 pairs of shorts for new children in school.

(a) How much cloth would he need to make the 12 pairs of shorts?

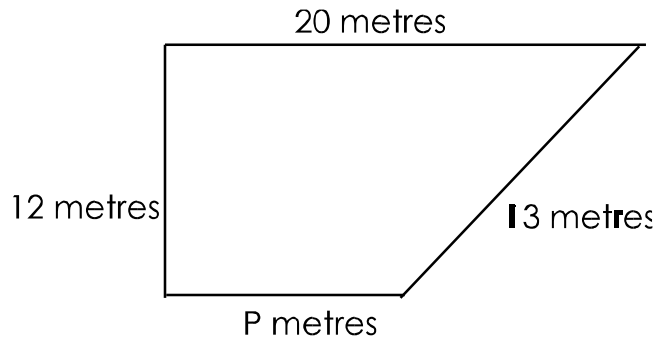
(2 Marks)

(b) If such cloth costs sh.3000 per metre, how much money will the tailor pay to buy it?

(2 Marks)



29. Below is a trapezoidal vegetable garden. Use it to answer questions that follow.



(a) Find the value of P. (3mrks)

(b) Calculate the area of the garden. (2mrks)

30. In a test, 3 pupils scored 50 marks each, 2 pupils scored 60 marks each, 4 pupils scored 80 marks each and 1 pupil scored 90 marks. Find the average mark of the pupils in the test.

(4mrks)

31. From village K, village R is 70km away on a bearing of  $060^{\circ}$  and village T is 60km away on a bearing of  $150^{\circ}$  from village K.

(a) Draw a sketch to show the location of the three villages. (1mrk)

(b) Using a scale of 1cm to represent 10km, draw an accurate diagram for the location of the three villages. (4mrks)

(c) Find the shortest distance from village R to village T.

32. The table below shows the buying and selling rates of foreign currencies in Ugandan shillings.

currency	Buying	Selling
united states dollar(\$) 1	Ush.3500	Ush.3600
Tanzanian shillings (Tz1)	Ush 25	Ush.26
Kenyan shillings (Ksh 1)	Ush.30	Ush.32

(a) Mr. Rene came with US\$200 from USA on a tour. How many Kenyan shillings did he come with? (3mrks)

(b) Betty bought a jacket at Tzsh.700. how much money is this in Ugandan money. (2mrks)

## Multiplication Chart

ONE	TWO	THREE	FOUR	FIVE	SIX
1 x 1 =	2 x 1 =	3 x 1 =	4 x 1 =	5 x 1 =	6 x 1 =
1 x 2 =	2 x 2 =	3 x 2 =	4 x 2 =	5 x 2 =	6 x 2 =
1 x 3 =	2 x 3 =	3 x 3 =	4 x 3 =	5 x 3 =	6 x 3 =
1 x 4 =	2 x 4 =	3 x 4 =	4 x 4 =	5 x 4 =	6 x 4 =
1 x 5 =	2 x 5 =	3 x 5 =	4 x 5 =	5 x 5 =	6 x 5 =
1 x 6 =	2 x 6 =	3 x 6 =	4 x 6 =	5 x 6 =	6 x 6 =
1 x 7 =	2 x 7 =	3 x 7 =	4 x 7 =	5 x 7 =	6 x 7 =
1 x 8 =	2 x 8 =	3 x 8 =	4 x 8 =	5 x 8 =	6 x 8 =
1 x 9 =	2 x 9 =	3 x 9 =	4 x 9 =	5 x 9 =	6 x 9 =
1 x 10 =	2 x 10 =	3 x 10 =	4 x 10 =	5 x 10 =	6 x 10 =
1 x 11 =	2 x 11 =	3 x 11 =	4 x 11 =	5 x 11 =	6 x 11 =
1 x 12 =	2 x 12 =	3 x 12 =	4 x 12 =	5 x 12 =	6 x 12 =
SEVEN	EIGHT	NINE	TEN	ELEVEN	TWELVE
7 x 1 =	8 x 1 =	9 x 1 =	10 x 1 =	11 x 1 =	12 x 1 =
7 x 2 =	8 x 2 =	9 x 2 =	10 x 2 =	11 x 2 =	12 x 2 =
7 x 3 =	8 x 3 =	9 x 3 =	10 x 3 =	11 x 3 =	12 x 3 =
7 x 4 =	8 x 4 =	9 x 4 =	10 x 4 =	11 x 4 =	12 x 4 =
7 x 5 =	8 x 5 =	9 x 5 =	10 x 5 =	11 x 5 =	12 x 5 =
7 x 6 =	8 x 6 =	9 x 6 =	10 x 6 =	11 x 6 =	12 x 6 =
7 x 7 =	8 x 7 =	9 x 7 =	10 x 7 =	11 x 7 =	12 x 7 =
7 x 8 =	8 x 8 =	9 x 8 =	10 x 8 =	11 x 8 =	12 x 8 =
7 x 9 =	8 x 9 =	9 x 9 =	10 x 9 =	11 x 9 =	12 x 9 =
7 x 10 =	8 x 10 =	9 x 10 =	10 x 10 =	11 x 10 =	12 x 10 =
7 x 11 =	8 x 11 =	9 x 11 =	10 x 11 =	11 x 11 =	12 x 11 =
7 x 12 =	8 x 12 =	9 x 12 =	10 x 12 =	11 x 12 =	12 x 12 =

## MULTIPLICATION TABLE

11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 4 = 44 11 X 5 = 55 11 X 6 = 66 11 X 7 = 77 11 X 8 = 88 11 X 9 = 99 11 X 10 = 110	12 X 1 = 12 12 X 2 = 24 12 X 3 = 36 12 X 4 = 48 12 X 5 = 60 12 X 6 = 72 12 X 7 = 84 12 X 8 = 96 12 X 9 = 108 12 X 10 = 120	13 X 1 = 13 13 X 2 = 26 13 X 3 = 39 13 X 4 = 52 13 X 5 = 65 13 X 6 = 78 13 X 7 = 91 13 X 8 = 104 13 X 9 = 117 13 X 10 = 130	14 X 1 = 14 14 X 2 = 28 14 X 3 = 42 14 X 4 = 56 14 X 5 = 70 14 X 6 = 84 14 X 7 = 98 14 X 8 = 112 14 X 9 = 126 14 X 10 = 140	15 X 1 = 15 15 X 2 = 30 15 X 3 = 45 15 X 4 = 60 15 X 5 = 75 15 X 6 = 90 15 X 7 = 105 15 X 8 = 120 15 X 9 = 135 15 X 10 = 150
16 X 1 = 16 16 X 2 = 32 16 X 3 = 48 16 X 4 = 64 16 X 5 = 80 16 X 6 = 96 16 X 7 = 112 16 X 8 = 128 16 X 9 = 144 16 X 10 = 160	17 X 1 = 17 17 X 2 = 34 17 X 3 = 51 17 X 4 = 68 17 X 5 = 85 17 X 6 = 102 17 X 7 = 119 17 X 8 = 136 17 X 9 = 153 17 X 10 = 170	18 X 1 = 18 18 X 2 = 36 18 X 3 = 54 18 X 4 = 72 18 X 5 = 90 18 X 6 = 108 18 X 7 = 126 18 X 8 = 144 18 X 9 = 162 18 X 10 = 180	19 X 1 = 19 19 X 2 = 38 19 X 3 = 57 19 X 4 = 76 19 X 5 = 95 19 X 6 = 114 19 X 7 = 133 19 X 8 = 152 19 X 9 = 171 19 X 10 = 190	20 X 1 = 20 20 X 2 = 40 20 X 3 = 60 20 X 4 = 80 20 X 5 = 100 20 X 6 = 120 20 X 7 = 140 20 X 8 = 160 20 X 9 = 180 20 X 10 = 200

PARENT'S COMMENT;

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SIGNITURE: \_\_\_\_\_

CONTACT: \_\_\_\_\_