

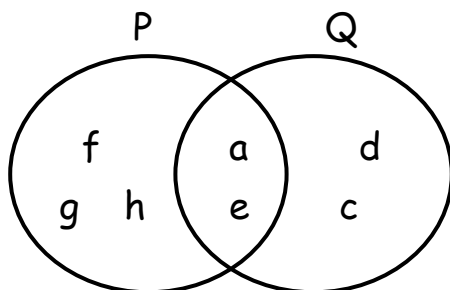
YUDESI NURSERY AND PRIMARY SCHOOL

P.7 MATHEMATICS HOLIDAY PACKAGE TERM 1, 2020

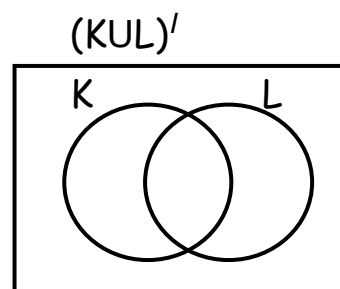
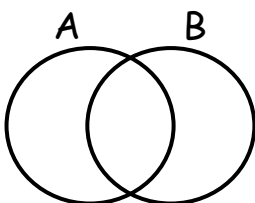
Name: _____ Stream: _____

SET CONCEPTS;

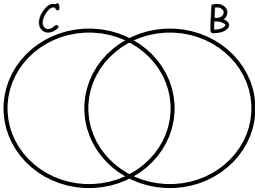
1. Given that set $A = \{\text{composite numbers less than } 20\}$.
List down members of set A .
2. Given that set $Q = \{a, e, i, o, u\}$. Describe set Q .
3. If set $Y = \{e, f, g\}$. List down all the subsets from set Y .
4. Given that $M = \{1, 2, 3, 4, e, f\}$. How many subsets has set M .
5. How many elements has a set with 128 subsets?
6. Given that set $R = \{n, m, o, p\}$. How many proper subsets has set R ?
7. Draw a venn diagram to show that all goats are Animals.
8. Given set Q has 255 proper subsets. How many elements has set Q ?
9. Study the venn diagram below carefully and use it to answer the following questions.



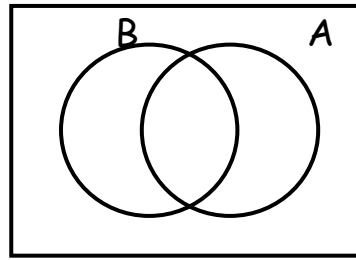
- a) List down members of set;
 - i) P
 - ii) Q
 - b) What is
 - i) $n(P \cup Q)$
 - ii) $n(P - Q)$
10. From the venn diagram given below shade;
- i) $A \cap B$
 - iii)



ii) C only



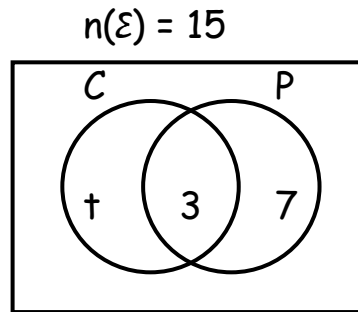
iv) B'



11. A die is tossed once, what is the probability of getting;

- a) even number on top?
- b) a number greater than 4?

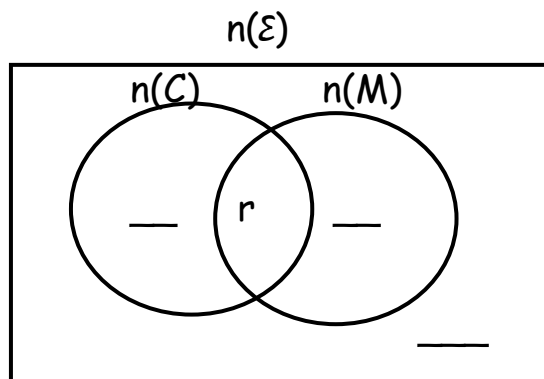
12. In a family of 15 members who prefer cassava (C) and Potatoes (P) as shown below. Study it carefully and use it to answer the following questions.



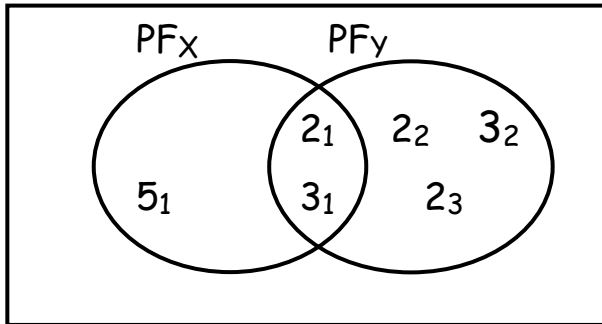
- a) Find the value of t.
- b) How many members eat only one type of food?
- c) If a member is picked at random, what is the probability of picking a member who likes eating only potatoes?

13. In a class of 40 farmers, 10 farmers grow Cassava (C) but not millet (M), 20 farmers grow Millet but not Cassava, r farmers grow both while 3 farmers grow neither of the crops.

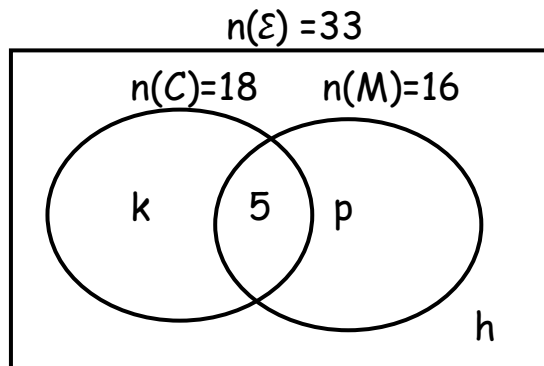
a) Represent the above information on the venn diagram below.



- b) Find the value of r .
- c) How many farmers grow only one type of crop?
14. The venn diagram below shows the prime factors of X and Y .



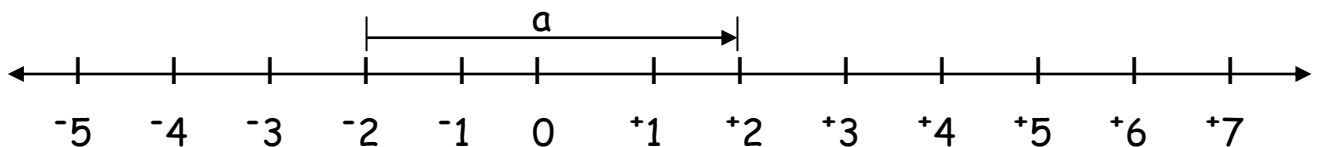
- a) Find the value of;
- i) X ii) Y
- b) Calculate the;
- i) G.C.F ii) L.C.M of X and Y .
15. Study the venn diagram below and use it to answer the following questions.



- a) Find the value of;
- i) k ii) h iii) p

INTEGERS;

16. Find the additive inverse of $-3t$.
17. What integer is represented by the arrow on the number line below.



$a =$

18. Compare the following integers using $>$, $<$ or $=$.

a) 6 _____ -12

b) 5 _____ -5

c) -7 _____ -1

d) $+6$ _____ 6

19. Arrange the following integers $-3, 4, 5, -1, 0$ and -5 in ascending order.

20. Simplify;

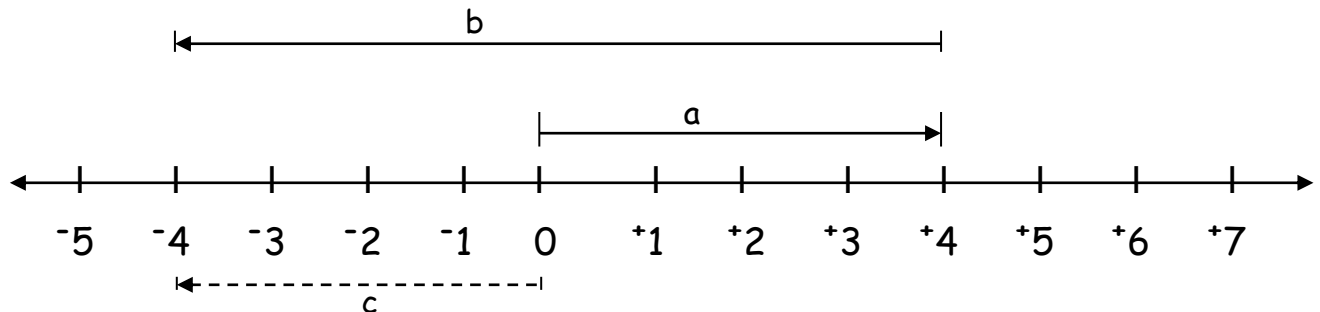
a) $-6 + 12$

b) $-3 - -7$

21. Workout $-4 + 6$ using a number line.

22. Simplify $-3 - -4$ using a number line.

23. Study the number line below and use it to answer the following questions.



a) Write down the integers represented by arrows marked;

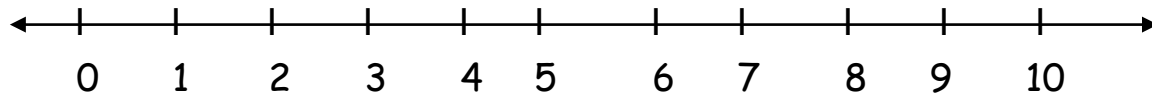
i) $a =$

ii) $b =$

iii) $c =$

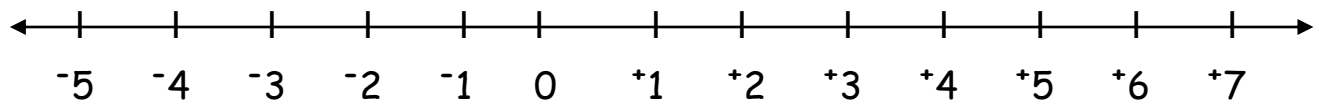
b) Write down the mathematical statement represented by the number line above.

24. Show the multiplication of 3×2 on the number line below.



25. The temperature of a patient is 37°C , it raised by 5°C . What is the temperature of the patient?

26. Sandra moved 4 steps forward, 6 steps backward and 8 step forward. Find her position on the number line below.

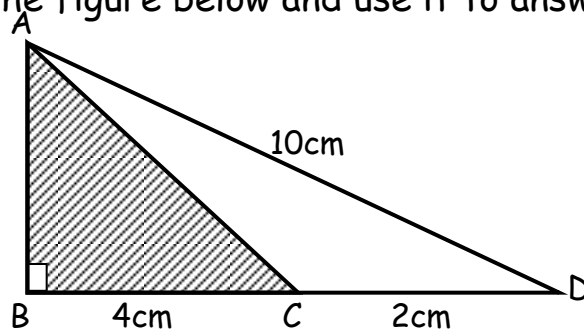


MEASURES:

27. Change $2\frac{1}{5}$ hours to minutes.

28. Express 4 hours into seconds.

29. Express 2.5 tonnes to kg.
30. Convert 2500gms to kg
31. A birthday party ended at 8.51p.m. Express this time in a 24 hour clock system.
32. An examination of $2\frac{1}{4}$ hours ended at 11:40a.m. At what time did it start?
33. A fuel pump attendant pumped fuel from AA342 to AA442.
- a) How many litres of fuel did a pump attendant sale?
- b) If each litre of fuel was sold at sh.2800. How much money did he get?
34. The area of a circle is 154cm^2 . Calculate its circumference $\left(\pi = \frac{22}{7}\right)$
35. A bus left Mbarara at 10:30a.m, moving at a steady speed of 60k/hr. If it reached Kasese at 1:30p.m.
- a) How long did the bus take to travel from Mbarara to Kasese?
- b) How far is Kasese from Mbarara?
36. Express 90km/hr to m/s.
37. Study the figure below and use it to answer the following questions;



- a) Calculate the area of the shaded part.
- b) Find the area of triangle ABC.
38. When marking a test, a teacher awarded 3 marks for every correct answer and deducted a mark for every wrong answer. The test had 20 questions.
- a) What is the score for a candidate who gets 15 correct answers?
- b) How many questions did a candidate who got 52 marks get correct?
39. Solve the inequality and write down the solution set for the following;
- a) $4 - 3y = 16$ b) $4p + 2 < 14$ c) $6 + 4p < 8 + p$
40. Today is Wednesday, what day of the week will it be 48days from now?
41. Solve $k - 4 = 3 \pmod{5}$