PASS PLE

ISSUE 44

MATHEMATICS
ENGLISH
SOCIAL STUDIES
SCIENCE

Bukedde YOUR GUIDE TO A BETTER LIFE THROUGH EDUCATION

1. Work out: 77 ÷ 11

2. Given that X = {2,3,5,7, 11}, how many subsets can you obtain from set X?

3. Round off 7844 to the nearest hundred.

4. Find the value of y if $3^y \times 3^0 = 9$

5. Simplify: (- 2) x (- 8)

6. Given that a = - 3 and b = 2, find the value of 2(a - b)

7. A car uses 7 litres of petrol for every 25 km. How many litres are needed for a journey of 75km?

8. Express 00:25 hours in 12-hour clock system.

9. Find the area of a semi - circle whose radius is 21 dm. (Take $\pi = {}^{22}/_{7}$)

SECTION A

10. A shopkeeper bought 50kg bag of sugar at sh.165,000. At what price must he sell the sugar in order to make a profit of sh 25,000?

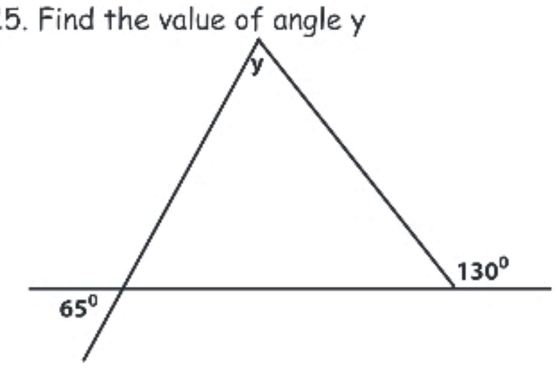
11. Find the value of n if: $22_n = 112_{three}$

12. The total surface area of a cube is $24cm^2$. Find its volume.

13. The bearing of townT from town B is 200^0. What is the bearing of town B from townT?

14. In a class, the ratio of boys to girls is 7:2. if there are 35 boys. How many pupils are in the class?

15. Find the value of angle y



16 A motorist took $1\frac{1}{2}$ hours to complete a journey while moving at a speed of 100km per hour. How long was the journey?

17. A rectangular plot of land is to be fenced with posts at intervals of 5m. If the plot measures 90m by 30m, how many posts are needed to fence the plot?

18. Write 0.2323... as a fraction.

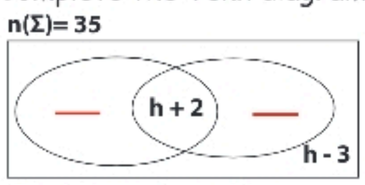
19. Express 7569 in scientific notation.

20. Ella scored the following marks in a series of tests: 64, 49, 52, 74, 67 and 52. What was his modal mark?

SECTION B

21. 35 guests were invited to a certain party, 22 of the guests liked meat(M), h+2 guests liked both the fish (F) and meat (M), (h-3) ate none of these.

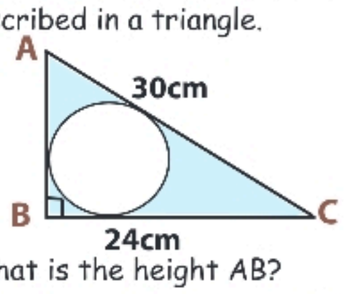
(a)Complete the Venn diagram below.



(b) Find the value of h

(c) How many guests ate fish?

22. Figure ABC below shows a circle inscribed in a triangle.



What is the height AB?

(b) Calculate the radius of the circle if the area of the shaded part is $62cm^2$.(Use pi as ${}^{22}/_{7}$)

23. A cyclist covered 60% of his journey in 2 hours and 40 minutes. How long was the journey if the cyclist was travelling at 90km per hour?

24. Musoni used his salary as follows: ${}^{1}/_{3}$ on fees, $\frac{1}{4}$ on transport, ${}^{1}/_{8}$ on clothes and saved the rest of the salary which was sh.280,000.

a) Find the fraction saved.

b) How much was his salary?

25(a) Using a ruler and a pair of compasses only, construct a triangle XYZ in which XY = 7.4cm and angle YXZ = 30^0 and angle XYZ = 75^0

b)Measure YZ . YZ=.....cm

26.a)Solve: 0.8(h - 2) - 0.25(h - 6) = 1

(b) Ben is 25 years old while Ken is 10 years old. In how many years time will Ken be half as old as Ben ?

27. Jamir went shopping and bought the following items;

2 loaves of bread at sh. 5,500 per loaf.

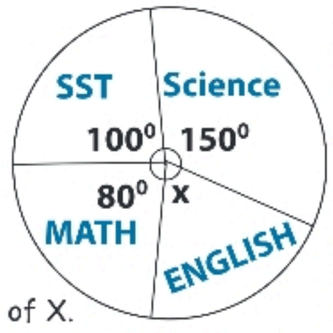
3bars of soap at sh. 18,000

2 $\frac{1}{2}$ kgs of curry for sh. 1000 per 500g.

(a) What was his total expenditure?

(b) If he was given 10% discount, how much did he pay for all the items?

28. The pie - chart below shows the number of boxes of books in a store. Study it and answer questions that follow.

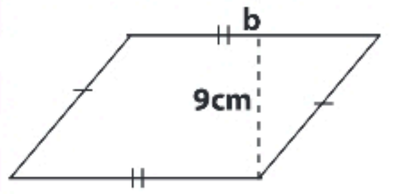


(a) Find the value of X.

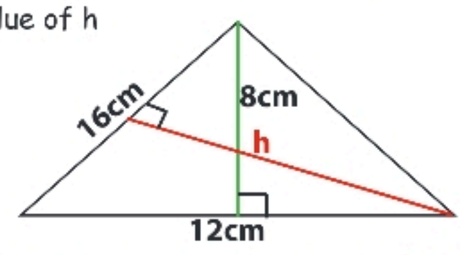
(b) If there are 12 more boxes for science than English, how many boxes are in the store altogether?

(c) Express the number of boxes for Maths as a percentage of the total numbers of boxes in the store.

29. a)The area of the parallelogram below is $108cm^2$. Find the value of b.



b)Study the figure below and find the value of h



30. The exterior angle of a regular polygon is two thirds of its interior angle.

(a) How many sides has the polygon?

(ii) How many right angles does the polygon have?