



VICTORY STEP EDUCATION SERVICES
HOLIDAY PLACEMENT SET ONE
PRIMARY SEVEN
2023
MATHEMATICS

Time Allowed: 2 hours 15 minutes

Random No:	Personal No:									
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Candidate's Name:

Candidate's signature:

District ID No:

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School Name:

Read the following instructions carefully :

1. Do not forget to write your **school** or **district** on the paper
2. This paper has two sections: **A** and **B**.
Section **A** has **20** questions and section **B** has **12** questions.
3. Answer **all** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
4. All answers must be written using a **blue** Or **black** ball point pen or ink. Any work Written in pencil will not be marked.
5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
6. Do not fill anything in the table indicated
"FOR EXAMINER'S USE ONLY"

FOR EXAMINER'S USE ONLY		
QN. NO.	MARKS	EXR'S NO.
1 -5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A(40MAKRKS)

All answers in this section carry two marks each.

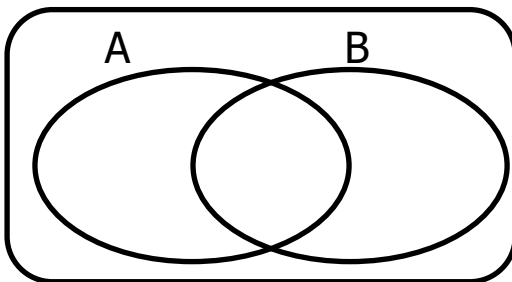
1. Divide $\frac{1}{9}$ by $\frac{1}{6}$

2. What is the sum of the first and fifth triangular numbers?

3. Simplify: $3a + a - 2a$

4. Solve: $2^{3n} + 2^n = 2^4$

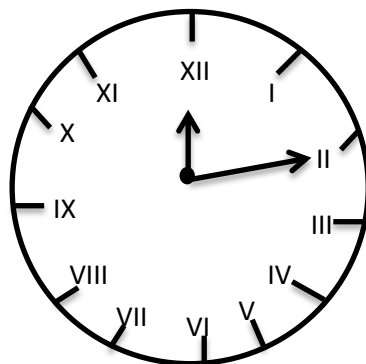
5. The figure below shows sets A and B. Shade region $B - A$



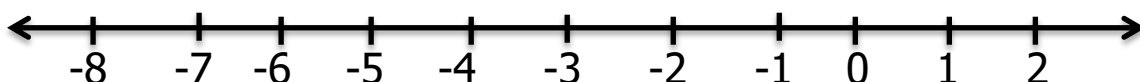
6. What is when divided by 10 , 15 or 20 leaves no remainder?

7. The profit made on 3 shirts sold at Sh.13000 each was Sh.12000. Find the cost price of the shirts.
8. A man drives a car at a speed of 60km/hr covering a distance of 480km. How long does it take to cover the distance?
9. If $\frac{4}{5}$ of the number is 10. Find the number.
10. Daphne scored the following marks in a series of tests: 96 , 92 , 80 , 84 , 98. Find her average score.

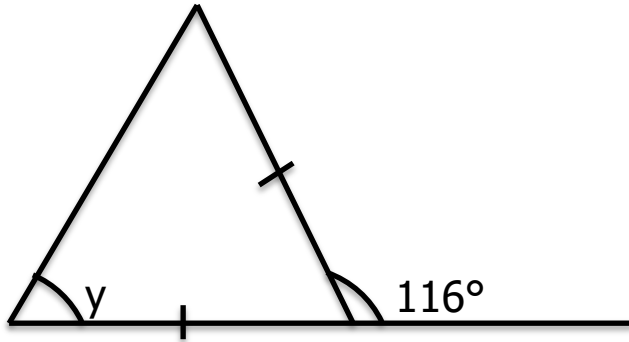
11. Write the afternoon time shown on the clock face below in 24 hours.



12. Work out : $-8 + +3$

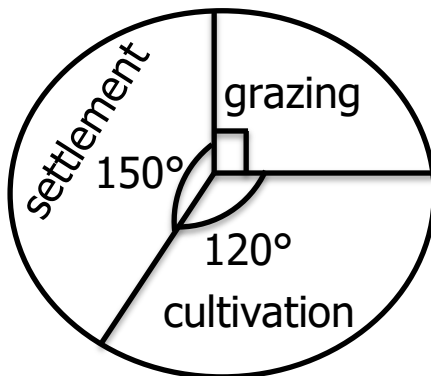


13. Find the size of angle y in the figure below.



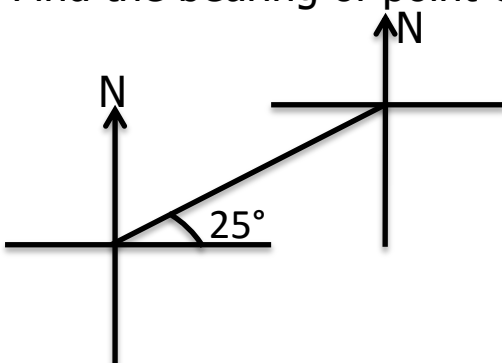
14. The average weight of 5 boys is 48kg. When the sixth boy joins them, the average weight becomes 45kg. What is the weight of the sixth boy?

15. The pie – chart below shows how a farmer uses her land. Calculate the Size of her land if she uses 72 acres for cultivation.



16. Write the place value of 2 and 1 in 2 0 1_{three}

17. Find the bearing of point Q from point P in the diagram.



18. The cost of 9 books is Sh.36000. What is the cost of 12 such books?

19. Solve the equation: $5t - 2(t + 1) = 1$

20. A mathematics test was given to a class of 50 pupils and 45 of them passed the test. What percentage of the class failed the test?

SECTION B(60 MARKS).

21a) Given that $3_n = 112_{\text{four}}$

b) Work out : $123_{\text{five}} + 43_{\text{five}}$

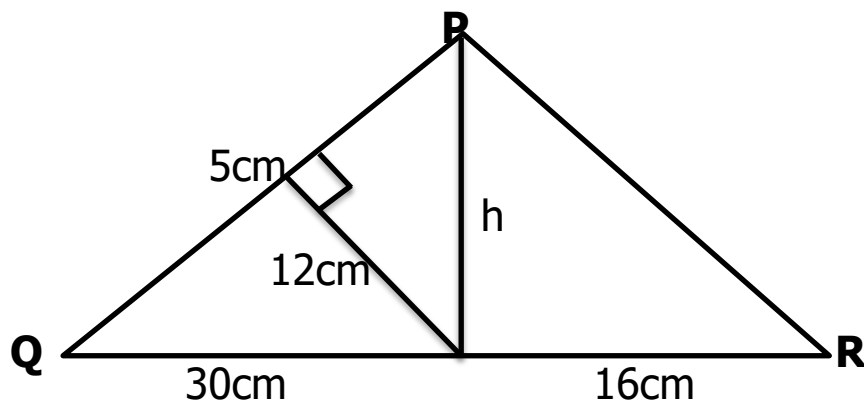
22a) Given that $m = 5$ and $n = 6$. Find the value of $2m + \sqrt{24n}$

b) Take away $2y - 1$ from 6

23a) Work out: $1\frac{1}{4} + 2\frac{1}{2}$

b) A tank is $\frac{3}{4}$ full, when full of 20 liters are removed it becomes $\frac{2}{3}$ full. How many liters are in the tank when it is full?

24. **PQR** is a triangle. Use it to answer the questions that follow.



a) Calculate the length of **h**.

b) Calculate the area of triangle **PQR**.

25. Nakalanzi bought the following items from a shop.

3½ kg of beans at Sh. 6000 per kilogram

1½ kg of salt at sh. 2500 per kilogram

4 bars of soap at Sh. 7000 per bar

a) If Nakalanzi was given a discount of 20% on her total expenditure. How much was the discount?

b) How much did Nakalanzi pay ?

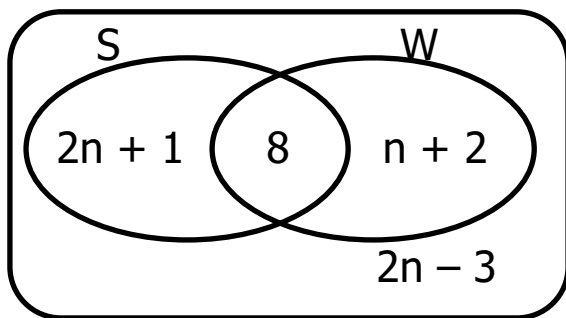
26. The District Inspector of schools in Kasese district registered 8000 candidates for PLE 2022. Out of these 40% were girls below 15 years and 35% were boys below 15% years of age. If there were 1500 girls who were above 15 years of age.

a) Find the number of girls who sat for PLE.

b) Find the number of boys who sat for PLE.

c) How many first grades did the district get if all the candidates below 15 years of age passed in division one?

27. At a party guests were served with Soda(S) and Mineral water(W) as shown in the venn diagram



a) If 13 guests were served with water altogether. Find the value of n

b) Find the total number of guests who attended the party

c) Find the probability of picking a guest who takes soda only.

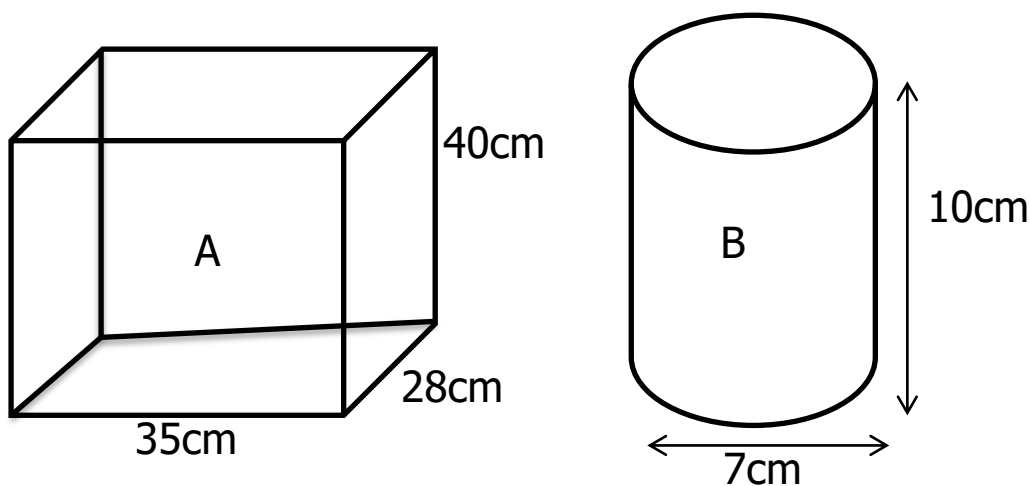
28. A dairy branch produced 2500cc packets of milk. The packets were sold and 19 litres of those were wasted. How many packets were wasted?

- b) The average age of 5 boys is 15 years. The ages of the first 4 boys are 18, 12, 13 and 16. What is the age of the 5th boy?

29. Using a ruler, a pencil and a pair of compasses. Construct a triangle such that $PQ = 6\text{cm}$, angle $RPQ = 60^\circ$ and angle $PQR = 45^\circ$. Construct a perpendicular line from R onto PQ to meet at Y.

b) Measure line RY.....

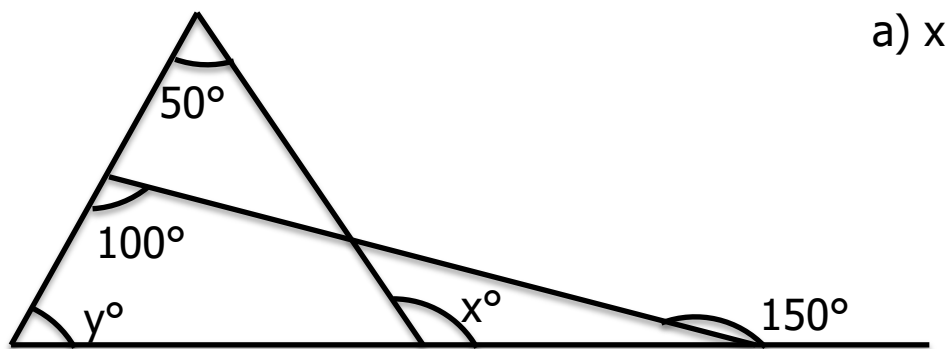
30. The figure shows tank A and cylindrical cup B



a) How many cylindrical cups of size B can be packed into the above box?

b) How many cylindrical cups of water can be drawn from the tank?

31. Find the value of angle x and y



a) x

b) y

32. A farmer planted his land as follows.

Maize $\frac{2}{5}$ of the land, Beans $\frac{1}{3}$ of the land, Peas $\frac{1}{5}$ of the land, Elephant grass on the remainder. Draw a pie chart to represent this information.