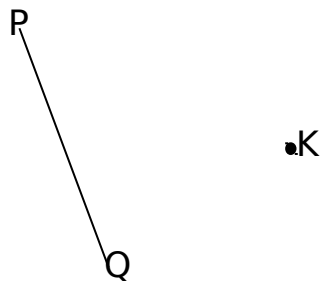


P.7 MATHEMATICS PAPER.

Name: _____

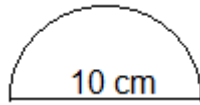
SECTION A

1. Take away: $24 - 9$.
2. Change 101_{two} to base ten.
3. Write 405,079 in words.
4. Simplify: $^{-}4 - ^{-}8$
5. Express 25cm as a fraction of a metre.
6. Using a pair of compasses, ruler and a pencil drop a perpendicular line from point K to I meet line PQ.



7. Simplify: $\frac{2}{3} \div \frac{1}{18}$

8. Calculate the circumference of the figure below. (Take $\pi = 3.14$)



9. Write a half past midnight in 24 hour clock system.

10. Write the next number in the sequence;

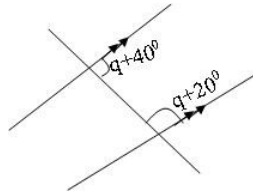
51, 26, 10, 1, ____

11. Solve the inequality; $3m + 5 \leq 20$.

12. There 9 good eggs and 4 bad eggs in a basket. If an egg is picked at random, what is the probability of picking a bad egg?

13. Given that 6, 5, 0, -6, 8, -1 and 3. Find the median.

14. In the diagram below, find the value of Q in degrees.



15. If $y = 6 \times 10^{-2}$. Express the value of y as a single numeral.

16. 25% of David's milk collection is 150 litres in a week. Find the amount of milk David collects in one week.

17. Workout : $0.24 \div 1.2$

18. How many 250 gram packets can be obtained from $2 \frac{1}{2}$ kg?

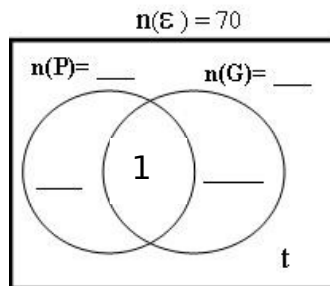
19. Solve: $\frac{1}{3}p + 2 = 4$

20. Arinda deposited shs. 50,000 in Uganda Commercial Bank which offers an interest of 30% per year. How much money will Arinda have in the bank after 6 months?

SECTION B

21. The Venn diagram below represents a class of 70 pupils who enjoy English (E), If 44 pupils like Physics (P) and English 36 pupils like History (H) and English and 17 pupils like all the 3 subjects and t like English only.

a) Complete the venn diagram below; (2 mrks)



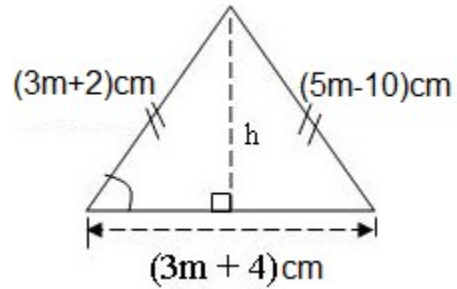
b) Find the value of t . (3mrks)

22. Entebbe Junior School has 14 streams. Each stream has 45 pupils.

a) How many pupils are in the school? (2mrks)

b) Calculate the number of girls in the school if $\frac{5}{9}$ of the total enrolment is girls. (2mrks)

23. The diagram below is an isosceles triangle. Use it to answer the questions that follow;



a) Find the value of m . (2mrks)

b) Calculate the height (H) of the triangle.
(2mrks)

c) Work out the area of the triangle.
(2mrks)

24. a) What is the place value of 4 in the number 482_{nine} ?
(2mrks)

b) Expand the number in (a) above using powers. (2mrks)

25. Kamuhangi spent $\frac{1}{3}$ of her salary on food, $\frac{2}{5}$ on school fees, $\frac{1}{6}$ on rent and saved the rest.

i) What fraction was saved?
(2mrks)

ii) If she saved sh. 15,000. How much money does she earn?
(2mrks)

26. a) Using a pair of compasses, a ruler and a pencil only, construct a triangle RST where $RT = 6$ cm angle $TRS = 45^\circ$ and angle $STR = 60^\circ$. Drop a perpendicular to meet RT at P.
(5mrks)

b) Measure length \overline{SR} . (1mrk)

27. A motorist travelling at a speed of 60 km/hr used $1\frac{1}{2}$ hours to travel from town K to town L.

a) How far is town L from K? (2mrks)

b) If he used $2\frac{1}{2}$ hours for the return journey, find the average speed for the whole journey.

(3mrks)

28. a) Use distributive property to work out;

$$(2.2 \times 1.9) + (2.2 \times 0.1)$$

(2mrks)

b) Express 0.25 as a common fraction in its simplest form.

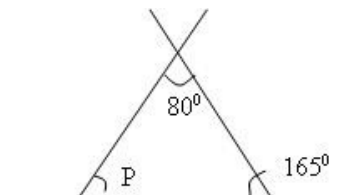
(2mrks)

29. a) What is the complement of $(43+P)^\circ$?

(2mrks)

b) In the diagram below, find the size of angle P.

(2mrks)



30. Tabula bought the following items from local market.

3 kg of groundnuts at sh. 4500 per kg

2 $\frac{1}{2}$ kg of rice at sh. 3800 per kg

1500 g of maize flour at sh. 2600 per kg.

a) Workout Tabula's total expenditure. (5mrks)

b) If Tabula had sh. 30000 and she was given 10% discount. Find her change.

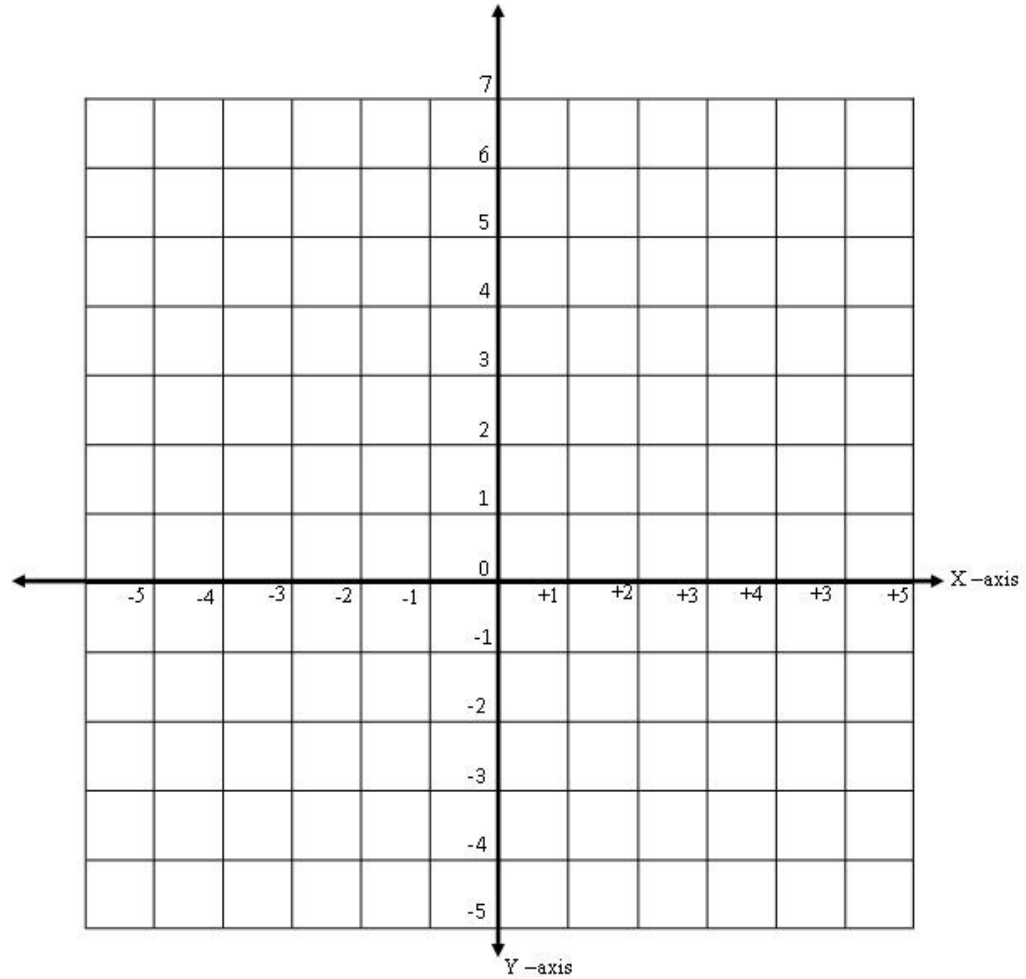
(2mrks)

31. a) Workout $4 + 5 = \underline{\quad}$ (mod 6) using a clock face dial. (2mrks)

b) Today is Wednesday, what day of the week will it be a fortnight from now?

(3mrks)

32. Study the grid below carefully and answer the questions that follow.



a) Plot the following points on the grid above $A(-4, 1)$, $B(2, 1)$, $C(+5, -2)$, $D(-4, -2)$.

(4mrks)

b) Join A to B, B to C, C to D and D to A and name the figure formed.

(2mrks)