

SECTION B

11. Express 180 as a product of prime factors.

(3m)

12. Complete the following statements with one word or one number for each space.

(a) An isosceles triangle has _____ equal sides and _____ equal angles

(b) An obtuse angle is greater than _____, but less than _____.

(c) 2 kilometres = _____ metres.

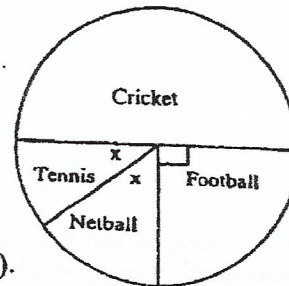
(d) The next two terms in the following sequence are

2, 3, 5, 7, _____, _____

(8m)

13. The pie chart at right shows the favourite sport of each child in form 1A3

(a) If 4 children like tennis best,
how many children are in the class?

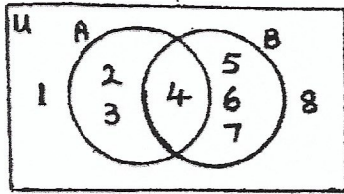


Ans:(2m).

(b) How many children in total like netball and football?

Ans:(2m)

11. (a) Use the Venn diagram below to answer the following questions:



(i) $A \cup B =$ Ans: {.....} (2 m)

(ii) $A' =$ Ans: {.....} (2 m)

(iii) $n(B) =$ Ans: (1 m)

(b) How many subsets can be formed from set A in the above diagram?

Ans: (1 m)

(c) In a class of 32 students, 20 like cricket and 18 like netball. How many like both types of games?

Ans: (2 m)

12. (a) A father divides a sum of money between his daughter and son in the ratio 3 : 4 respectively.

(i) What fraction of the money did the son receive?

Ans: (2 m)

(ii) If the sum of money is \$28, calculate the amount the daughter receives?

Ans: (2 m)

(b) A lawyer charges \$85 per hour.

(i) How much money would a client have to pay if the lawyer worked for 8 hours on their case?

Ans: (2 m)

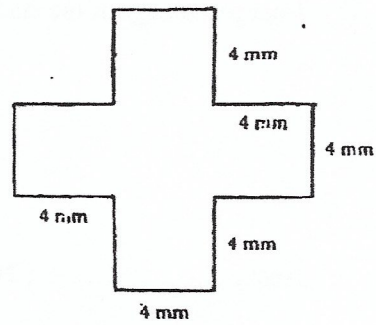
(ii) Calculate correct to the nearest cent the lawyer's rate per minute.

Ans: (2 m)

(c) How many children like cricket?

Ans:(2m)

14. Calculate the area and perimeter of the below shape



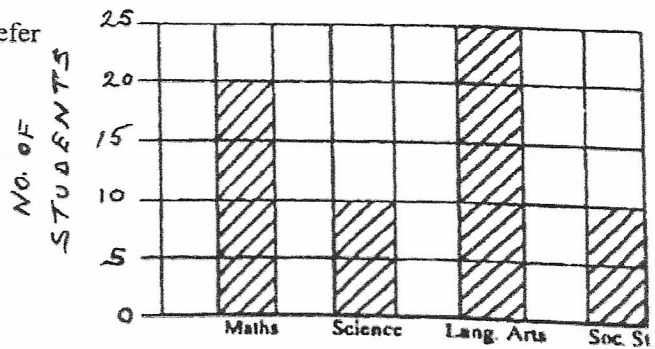
Ans: perimeter =(2m)

Ans: area =(3m)

15. Use the Bar Chart below to answer the following:

Favourite Subjects

(a) How many more students prefer Lang. Arts to Soc. St. ?



Ans:(2m)

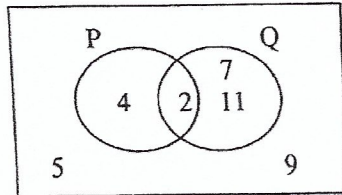
If a student can only have one favourite subject,
how many students were in the survey ?

Ans:(2m)

(b) What percentage of the students like Lang. Arts?

Ans: (2m)

16. (a) Use the Venn diagram to answer the following questions:



(i) $P \cup Q = \{ \quad \quad \quad \} \quad (2m)$

(ii) $Q' = \{ \quad \quad \quad \} \quad (2m)$

(iii) $n(P) = \quad \quad \quad (2m)$

(b) How many subsets can be formed from set Q in the above diagram?

Ans: (2m)