

BCM SCHOOL BASANT AVENUE, DUGRI, LUDHIANA

SESSION 2023-2024

CLASS -VII

SUBJECT –MATHEMATICS (041)

FEBRUARY ASSIGNMENT

1. Which of the following is the mean of the 1<sup>st</sup> 5 natural numbers?

- a)2      b)3      c)4      d)5

2. Two angles can be supplement if both of them are

- a) obtuse angles      b) reflex angles      c) right angles      d) obtuse angles.

3.The value of  $(-1)^2$  is

- (a) 0      (b) -1      (c) 1      (d) None of these

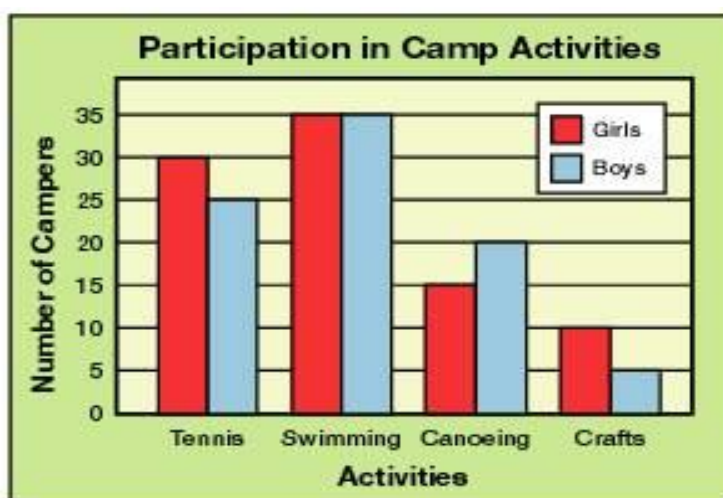
4. Assertion (A): The length of rectangle of area  $135\text{cm}^2$  and breadth 9 cm is 15 cm.

Reason(R): Length of the rectangle = Area  $\times$  Breadth

- (a) A and R are true and R is the correct explanation of A.  
(b) Both A and R are true but R is not the correct explanation of A  
(c) A is true but R is false.  
(d) A is false but R is true.

5. CASE STUDY QUESTION:

Physical and Health Education is an indispensable part of student life. In order to ensure physical fitness of the students, the Sports Club of our town organised various activities. The following Double Bar Graph reveals the data regarding participation of boys and girls in sports activities:



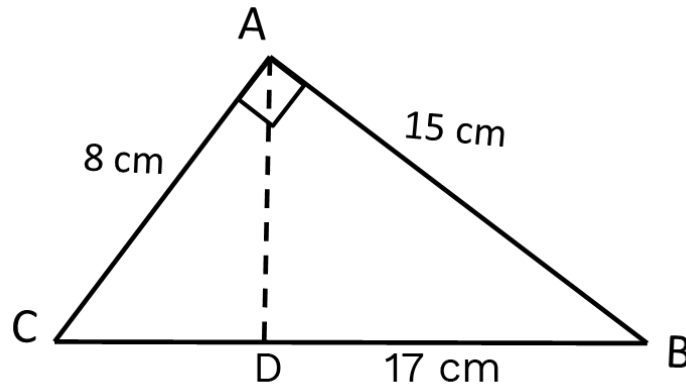
Read the above Bar graph and answer the following questions:

- (i) In which activity both girls and boys participated in equal numbers?  
(ii) In which activity more number of boys participated than girls?

(iii) What is the total number of boys and girls participated in Canoeing?

SUBJECTIVE QUESTION:

6.  $\Delta ABC$  is right angles at A,  $AD \perp BC$ . If  $AB = 8\text{cm}$ ,  $BC = 17\text{cm}$  and  $AC = 15\text{cm}$ . Find the area of  $ABC$  and also length of  $AD$ .

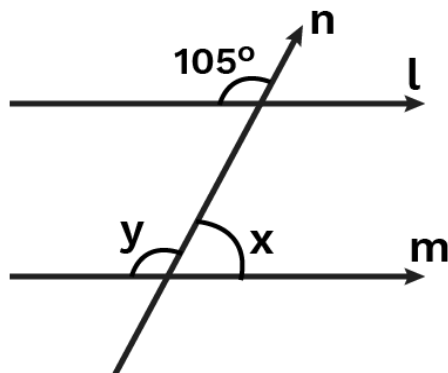


7. Solve the equation:

$$2(p+9)=-4$$

8. What rate gives an interest of Rs. 540 On a sum of Rs 18000 in 3 years?

9. Find the value of  $x$  in the following figure.



10. Find the value of  $x^3-3x^2y+2xy^2+8xy+9$  when  $x=-3$  and  $y=1$

