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 A survey of 120 school students was done to find which activity they prefer to do in their free time.

Preferred activity	Number of students
Playing	45
Reading story books	30
Watching TV	20
Listening to music	10
Painting	15

Draw a bar graph to illustrate the above data taking scale of 1 unit length = 5 students. Which activity is preferred by most of the students other than playing?

18. Construct with ruler and compasses, angles of following measures: (a)  $120^\circ$  (b)  $90^\circ$

19. Find the perimeter of each of the following shapes:  
 (a) A triangle of sides 3 cm, 4 cm and 5 cm.  
 (b) An equilateral triangle of side 9 cm.  
 (c) An isosceles triangle with equal sides 8 cm each and third side 6 cm.

20. 250 people are working in an office, out of which 150 are men and the remaining are women. Find the ratio of (a) the total number of people to that of men (b) the total number of people to that of women (c) the number of men to that of women.

21. On a squared paper, sketch the following:  
 (a) A quadrilateral with both horizontal and vertical lines of symmetry.  
 (b) A hexagon with exactly two lines of symmetry.

22. In a year, Seema earns Rs 1,50,000 and saves Rs 50,000. Find the ratio of  
 (a) Money that Seema earns to the money she saves.  
 (b) Money that she saves to the money she spends.

#### SECTION – D

23. Draw a rough figure and label suitably in each of the following cases:

- (a) Point P lies on  $\overline{AB}$ .
- (b)  $\overline{XY}$  and  $\overline{PQ}$  intersect at M.
- (c) Line  $l$  contains E and F but not D.
- (d)  $\overline{OP}$  and  $\overline{OQ}$  meet at O.

24. A rectangular path of 60m length and 3m width is covered by square tiles of side 25cm. How many tiles will there be in one row along its width? How many such rows will be there? Find the number of tiles used to make this path?

25. A car travels 180 km in  $2\frac{1}{2}$  hours.

- (a) How much time is required to cover 60 km with the same speed?
- (b) Find the distance covered in 2 hours with the same speed.

26. Determine if the following ratios form a proportion. Also, write the middle terms and extreme terms where the ratios form a proportion.  
 (a) 2 kg : 80 kg and 25 g : 625 g      (b) 200 ml : 2.5 litre and Rs 4 : Rs 50



10.  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$  की स्थिति में, ऐसीकरण युग्म :

- (A) संगत होता है      (B) असंगत होता है  
 (C) दोनों      (D) इनमें से कोई नहीं

11. विधात बहुपद का सबसे व्यापक रूप है :

- (A)  $ax^2 + bx + c$       (B)  $ax^4 + bx^3 + c$   
 (C)  $ax^3 + bx^2 + cx + d$       (D)  $ax^2 + bx^2 + c$

12. यदि  $\alpha, \beta$  द्विघात बहुपद  $f(x) = x^2 - 5x + 7$  के मूल हों, तो  $\frac{1}{\alpha} + \frac{1}{\beta}$

- का मान होगा :
- (A)  $-\frac{5}{7}$       (B)  $\frac{5}{7}$       (C)  $\frac{7}{5}$       (D)  $-\frac{7}{5}$

13. द्विघात बहुपद  $6x^2 - 7x - 3$  के शून्यक होंगे :

- (A)  $\left(\frac{3}{2}, \frac{1}{3}\right)$       (B)  $\left(-\frac{3}{2}, \frac{1}{3}\right)$       (C)  $\left(\frac{3}{2}, -\frac{1}{3}\right)$       (D)  $\left(-\frac{3}{2}, -\frac{1}{3}\right)$

14. यदि  $\alpha$  तथा  $\beta$  द्विघात बहुपद  $f(v) = v^2 + 2v + 3$  का मूल हो, तो

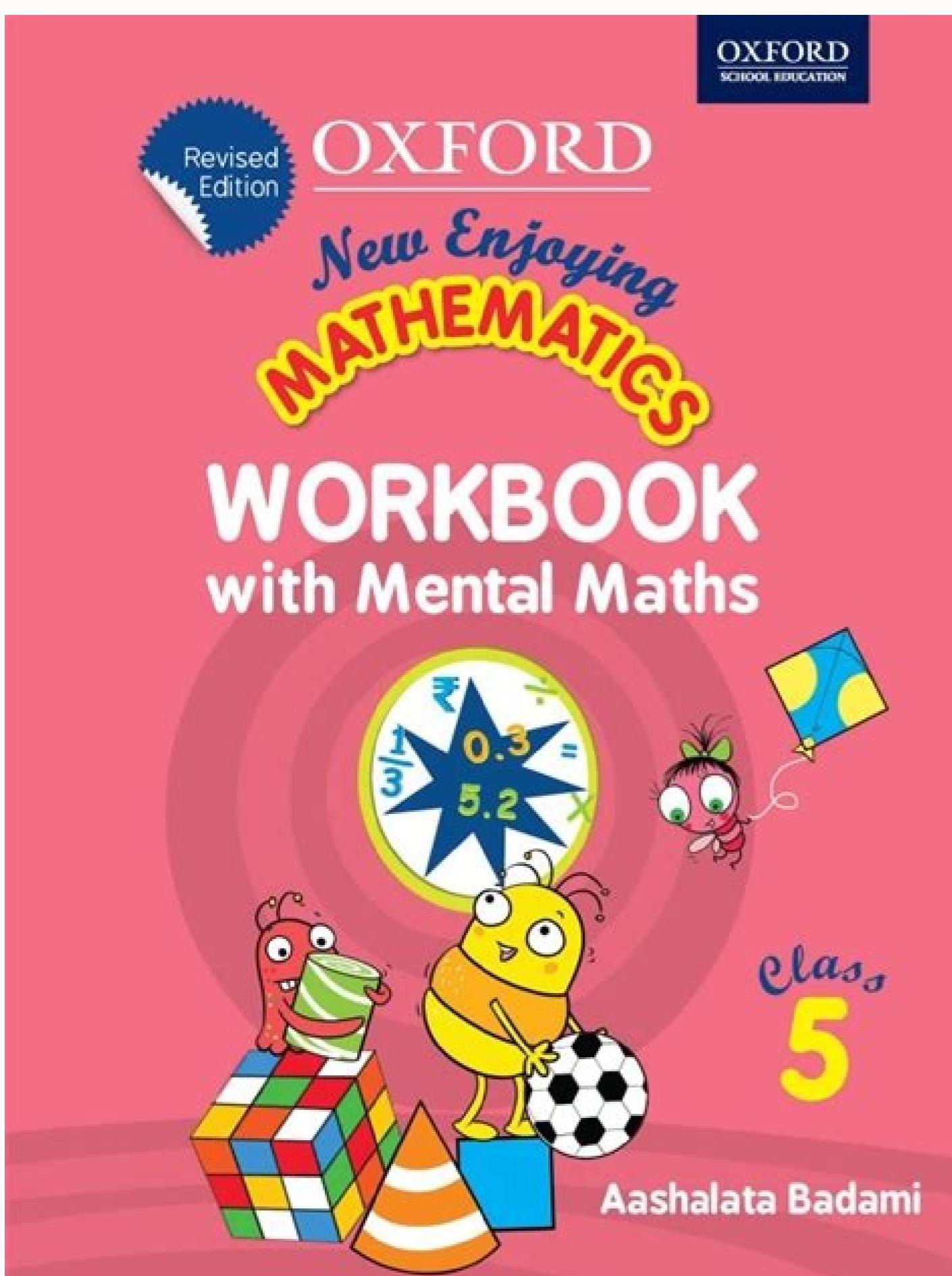
- $\frac{1}{\alpha} + \frac{1}{\beta}$  का मान होगा :
- (A)  $\frac{3}{2}$       (B)  $-\frac{2}{3}$       (C)  $\frac{2}{3}$       (D)  $-\frac{3}{2}$

15. यो ऐसीकरणों के आलेख प्रतिच्छेदों रेखाएँ हैं, तब ऐसाक समीकरण युग्म का :

- (A) कोई हल नहीं है      (B) एक हल है  
 (C) दो हल है      (D) अंततः अनेक हल है

16. निम्नलिखित में कौन परिमेय संख्या है ?

- (A)  $\sqrt{3}$       (B)  $\frac{2\sqrt{2}}{\sqrt{2}}$       (C)  $4 + \sqrt{5}$       (D)  $\sqrt{16}$



वर्तमान वर्ष	- प्रथम वर्ष / प्रथम वर्षीय
वर्षासार	- दोषीय वर्षीय
दृष्टिकोण	- विद्युतीय का मूल्य / विद्युतीय का अवधारणा
सीधे	- दायर्य
सीधे लिखें	- लिखें से
कठीन	- जटिल व्यापक
संज्ञान	- लिखित व्यापक
विभाग	- विभाग / विभागीय गुणवत्ता विवरण
विभाग	- विभाग
पौराण	- पौराण
संबन्ध	- संबन्ध
पौराण-संबन्ध	- पौराण में
कालान्तर	- कालान्तर
संबन्धीय	- संबन्धीय
दिव्य	- दिव्य
द्विवाराव	- (1) चाराय (2) चाराय
सुन्दर	- असौंदर्य इत्यादि से
कैलेक्शन	- कैलेक्शन
विवरणीय	- विवरणीय अवधि के विवरण
पूर्ण	- पूर्ण
प्राचीन-कालीन	- कालान्तर वर्ष / विवरणीय-प्राचीन वाक्य
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Lawrence invented the first cyclotron at the University of California, Berkeley in 1932. All apparatus is placed between the two poles of a strong electromagnet, as shown in Fig. A cyclotron is a type of circular particle accelerator. Dees are included in a metal box containing a low pressure from the order of 10 - 3 mm merced. The particle routine takes the form of a growing radius spiral. The centripetal force is equal to the magnetic force  $I.E.F.C.F.C = F.M.A @ 2Rm @ 2R = A @ A @ \pm 1/2 @ 1/2 @ 1/2 = QBRM @ B.RM$  angular velocity (angular frequency cyclotron) is given by,  $\omega = \sqrt{qB^2 / (2m)}$  This is the Cyclotron's Cyclotron's Frequency Formula (image to be added soon) in a cyclotron, two face-shaped electrodes With a small gap, inside a vacuum camera. Dees are connected to the source of the high frequency Electric field. The charged particle is inserted into a cyclotron in such a way that your move direction is perpendicular to the magnetic static field. It was a machine of 69 cm of a diameter with a maximum energy of 4.8 MEV. Cyclotron increases the energy of the charged particles using electrical and magnetic fields. The  $\omega$  "tees" has a cylindric space for the particles to move. Particles are injected into the center of the cylindrical space (shown by a point in the figure). When creating an oscillating electrical field in the region between the dees, the tension accelerates the particles. The voltage is defined at a frequency that allows the particles to complete a circuit in a single cycle. These modifications are made to balance the growing mass of the acceleration particle, since its speed tends to the speed of light. Ernest O. It is achieved, making the particles pass under the action of a strong magnetic field. Both fields are perpendicular to each other. Particulars Charged Particles accelerate out from the center of a cyclotron along a spiral route. The time spent inside a Dee to cover the semi-circular path is  $t = \pi R / v$ . This process repeats because the positive will spend at the same time within a Dee, regardless of its speed or radius of the circular path. E. The Lawrence and M. Livingston invented in 1934 to examine the nuclear structure. He received the Nobel Promotion in 1939 for this invention. The positive will gain again the energy, because it is attracted by the Dee \$ D. (1) \$, after moving along the semi-circular path inside the Dee \$ D. (1) \$, the Positive Development again reaches the gap and it gains energy. The electrical field is generated by an alternating voltage of high frequency. The centripetal force  $F_c$  has magnitude,  $F_c = m @ 2rm @ 2rm @ A @ v^2 / r$ ,  $m$  is the particle mass and  $r$  is the radius of the circular path. A positive impact can acquire large enough energy with a different alternating potential difference, making them cross the same electrical field again and again making use of a magnetic strong field. Different degree in Dees Betn. These are, however, still used  $\omega$



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