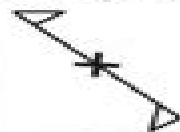


9. The number of illiterate persons in a country decreased from 150 lakhs to 100 lakhs in 10 years. What is the percentage of decrease?
10. State the number of lines of symmetry for the following figures:  
(a) A parallelogram (c) A regular hexagon
11. What cross-sections do you get when you give a (i) vertical cut (ii) horizontal cut to the following solids? (a) A circular pipe (b) An ice cream cone
12. Two dice are placed side by side as shown in below figure. What the total would be on the face opposite to (a)  $5 + 6$  (b)  $4 + 3$



### SECTION – C

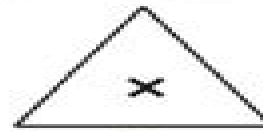
13. Selling price of a toy car is Rs 540. If the profit made by shopkeeper is 20%, what is the cost price of this toy?
14. Simplify:  $\frac{25 \times 5^2 \times t^8}{10^3 \times t^4}$
15. Find any three rational numbers between  $\frac{1}{4}$  and  $\frac{1}{2}$
16. A circular flower bed is surrounded by a path 4 m wide. The diameter of the flower bed is 66 m. What is the area of this path? ( $\pi = 3.14$ )
17. Give the order of rotational symmetry for each figure:



(a)



(b)



(c)

18. Add:  
(i)  $14x + 10y - 12xy - 13$ ,  $18 - 7x - 10y + 8xy$ ,  $4xy$   
(ii)  $3p^2q^2 - 4pq + 5$ ,  $-10p^2q^2$ ,  $15 + 9pq + 7p^2q^2$
19. If  $a = 2$ ,  $b = -2$ , find the value of: (i)  $a^2 + ab + b^2$  (iii)  $a^2 - b^2$ .
20. Construct  $\triangle LMN$ , right-angled at M, given that  $LN = 5$  cm and  $MN = 3$  cm.
21. Let  $l$  be a line and  $P$  be a point not on  $l$ . Through  $P$ , draw a line  $m$  parallel to  $l$ . Now join  $P$  to any point  $Q$  on  $l$ . Choose any other point  $R$  on  $m$ . Through  $R$ , draw a line parallel to  $PQ$ . Let this meet  $l$  at  $S$ . What shape do the two sets of parallel lines enclose?
22. A verandah of width 2.25 m is constructed all along outside a room which is 5.5 m long and 4 m wide. Find: (i) the area of the verandah.  
(ii) the cost of cementing the floor of the verandah at the rate of Rs 200 per  $m^2$ .

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**J Rink**



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