

13. Simplify: $\frac{3^5 \times 10^5 \times 25}{5^7 \times 6^3}$
14. Juhi sells a washing machine for Rs 13,500. She loses 20% in the bargain. What was the price at which she bought it?
15. Subtract:
 (i) $5a^2 - 7ab + 5b^2$ from $3ab - 2a^2 - 2b^2$
 (ii) $4pq - 5q^2 - 3p^2$ from $5p^2 + 3q^2 - pq$
16. Represent these numbers on the number line. (i) $-\frac{6}{4}$ (ii) $\frac{7}{6}$ (iii) $\frac{11}{7}$
17. The minute hand of a circular clock is 15 cm long. How far does the tip of the minute hand move in 1 hour. (Take $\pi = 3.14$)
18. Give the order of the rotational symmetry of the given figures about the point marked 'x'



(a)



(b)



(c)

19. Find the value of the following expressions when $n = -2$.
 (i) $5n - 2$ (ii) $5n^2 + 5n - 2$ (iii) $n^3 + 5n^2 + 5n - 2$
20. Construct a triangle PQR, given that $PQ = 3$ cm, $QR = 5.5$ cm and $\angle PQR = 60^\circ$.
21. Draw a line, say AB, take a point C outside it. Through C, draw a line parallel to AB using ruler and compasses only.
22. The area of a square park is the same as of a rectangular park. If the side of the square park is 60 m and the length of the rectangular park is 90 m, find the breadth of the rectangular park.

SECTION – D

23. Anil deposited Rs. 20,000 for saving as a fixed deposit in a bank at 10% per annum. Find the amount he will get after 5 years. What are the benefits of savings?
24. Find the value of (i) $\frac{3}{13} \div \left(\frac{-4}{65}\right)$ (ii) $\frac{-7}{12} \div \left(\frac{-2}{13}\right)$
25. (a) What should be taken away from $3x^2 - 4y^2 + 5xy + 20$ to obtain $-x^2 - y^2 + 6xy + 20$?
 (b) From the sum of $3x - y + 11$ and $-y - 11$, subtract $3x - y - 11$.

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all that is is the basis vectors it s just a matrix with the basis vectors in the column

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