

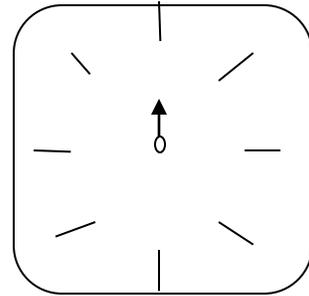
Name :  
Class: VISubject : Maths  
Date :

1. Draw clocks and find the angle between the hands of a clock at a) 7 o'clock b) 3:30 o'clock.
2. Find the cost of fencing a square park of side 325m at the rate of Rs. 25 per metre.
3. A carpenter can make 52 chairs in 13 days. How many days will he take to make 40 chairs?
4. Convert the following into algebraic expressions:
  - a) 6 times a is added to 3 times b.
  - b) The product of x and y is added to 6 times a.
5. a) Express 64 as the sum of three odd primes.  
b) Give the prime factorization of 1224.
6. Draw a line segment  $AB = 7\text{cm}$ . Take a point 'O' on line segment AB such that it lies in the mid-point of line segment AB, draw a perpendicular to it through 'O'.
7. a) Write all the integers between - 3 and 3 in descending order.  
b) Arrange 32, -217, -96, 98, 0, -12, -73 in ascending order.
8. Two plots of land have the same perimeter. One is a square of side 64m and the other is a rectangle of length 70m. Find the breadth of the rectangular plot. Which plot has the greater area and by how much?
9. Draw  $\angle MON = 135^\circ$ . Draw its bisector also.
10. The first, third and fourth terms of a proportion are 12, 40 and 60. Find the second term.
11. There are 56 big flower pots and 24 hanging flower pots in the garden of Mona. Find the ratio of:
  - a) Number of big flower pots to the number of hanging flower pots.
  - b) Number of hanging flower pots to the total number of flower pots.
12. Three strings are of lengths 120cm, 136cm and 160cm. These strings are to be cut into small pieces of equal length. Find the longest possible length of the string which can be cut from the three strings.
13. What must be added to  $-7x^3 + 9x^2 - 5x + 3$  to get  $-8x - 5x^2 + 8 + 2x^3$ .
14. Solve the equation:  $19x - 13 = 11x + 35$
15. a) The sum of two integers is - 854. If one of them is - 98, find the other.

16. Simplify:  $(-95) + 728 - (-32) - 98$  There are markings as shown on a domestic appliance.

Through how many degrees does the pointer turn when it moves:

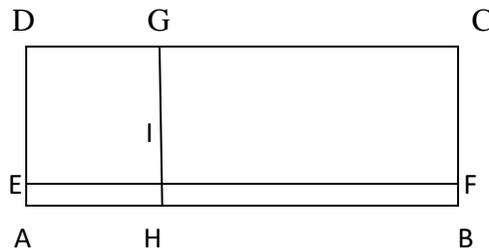
- Clockwise from off to cold?
- Anti-clockwise from hot to warm?
- Clockwise from very hot to cool?
- Clockwise from cold to warm?
- Anti-clockwise from very cold to very hot?
- Clockwise from warm to cool?



17. a) How many right angles do you turn through, if you start facing:

- North and turn clockwise to South?
- East and turn anticlockwise to North?

b) How many rectangles can be formed in the following figure? Name them.



18. The length and breadth of a room are 10m and 4m respectively. Find the number of square tiles of side 50cm that are required to pave on the floor of the room. Also, find the total cost of the tiles at Rs. 22.50 per tile.

19. a) If  $p = -2$ ,  $q = -1$  and  $r = 3$ , find the value of  $2p^2 + 5q - 7r + 8$ .

a) Simplify:  $7x^3 - 5y^2 + 6x + 4xy - 9x^2 + 7xy - 9x + 8x^3 - 4 + 7x^2 + 3xy$ .

20. In an army camp, there were provisions for 425 men for 30 days. However, 375 men attended the camp. How long did the provisions last?

21. The circumferences of four wheels are 50cm, 60cm, 75cm and 100cm. They start moving simultaneously. What least distance should they cover so that each wheel makes a complete number of revolutions?