

Assignment
Study Material - I

CLASS - VII

1. Find i) $38 \times (-3) + (-38) \times 7$ iii) $-17 \times (-29)$
ii) 48×23 iv) $12 + (5-7) \times (-3)$
2. If $a = -8$, $b = -7$, $c = 6$, verify that $(a+b)+c = a+(b+c)$.
3. The product of two integers is 535, If one integer is ~~938~~ -107. Find the other integer.
4. A certain freezing process requires that room temperature be lowered from 40°C at the rate of 5°C per hour. What will be the room temperature 12 hours after the process begins?
5. In a class test containing 20 questions, 4 marks are given for every correct answer and (-2) marks are given for every incorrect answer. Ronjita attempts all questions and 12 of her answers are correct. What is her total score?
6. Arrange $\frac{2}{5}, \frac{3}{10}, \frac{9}{14}, \frac{16}{35}$ in ascending order.
7. Simplify : i) $\frac{10}{27} \times \frac{28}{65} \times \frac{39}{56}$ ii) $\frac{4}{9}$ of 54 metres. iii) $\frac{1}{6}$ of a hour.
8. How much less is 28.8km than 42.3km?
9. Find the product of $0.47 \times 5.3 \times 0.06$
10. Fiza is riding. She covers a distance of 100m in one ~~ride~~ ^{side}. If she wants to cover 2.15km, how many sides she has to take to cover the distance
11. Compare i) $\frac{2}{5}$ and $\frac{3}{7}$ ii) $\frac{14}{19}$ and $\frac{32}{27}$
12. The sum of two rational numbers is $-\frac{18}{21}$. If one of them is $-\frac{3}{7}$ then find the other
13. The temperature of a city rose to $17\frac{1}{2}^\circ\text{C}$ from 12 noon to 4pm. But from 4pm to 9pm it fell by $4\frac{3}{5}^\circ\text{C}$. Find the thermometer's reading at 9pm if the initial reading was $18\frac{1}{3}^\circ\text{C}$
14. Find : $\frac{7}{2} \times (-\frac{18}{21}) \times (\frac{17}{35})$
15. Express as product of prime factors i) 108 ii) 729
in exponential form.
16. write each number in the exponential form a) $3 \times 3 \times 5 \times 5 \times 5$ b) $b \times b \times b \times b$
17. using laws simplify i) $\frac{(7^0 \div 3^0) \times 5^{21}}{5^{17}}$ ii) $\frac{(5)^3 \times 8 \times 5^{18}}{5000 \times 2^3}$
18. Express 57689.28 in standard form.
19. ~~Find~~ ^{If} the side of a ^{regular} pentagon is $\frac{3}{10}$. Find its perimeter.
20. Identify terms and factors in $10x^3 - 27x^2 + 36x - 27$.