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Radiation Admission for Competitive Exams  
NSEJS / Talent Search / National-International Olympiads / Kishore Vaigyanik



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IJSO | Talent Search | M-Sc-Astro Olympiad | IIT / PMT Foundation

ANSWERS & SOLUTIONS

REAL NUMBERS



ZAKIERA ~ 1

The Question Bank



Sum 1.  $y(x - 1)$

Sum 2.  $(x + 4)$

Sum 3.  $(x^2 + x y + y^2)$

Sum 4.  $18(x + 2y)$

Sum 5.  $(2x^2 + y^2 + 2xy)$

Sum 6.  $2x(x^2 - x - 1)$

Sum 7.  $a = -6$   $b = 11$

Sum 8.  $3x^2(x^2 - a^2)$

Sum 9.  $a = 12$   $b = 4$

Sum 10. (make linear equation in two variable)

Sum 11. (make linear equation in two variable.)

Sum 12.  $\frac{6}{17}$

Sum 13.  $(2400 - 6)$  ;  $(1810 - 4)$  ;  $HCF = 42$

Sum 14.  $(38 - 2)$  ;  $(45 - 3)$  ;  $(52 - 4)$  ;  $HCF = 6$

Sum 15.  $(410 - 7)$  ;  $(751 - 7)$  ;  $(1030 - 7)$  ;  $HCF = 31$

Sum 16. 73

Sum 17. When both number divisible by any number then their difference is also divisible by that number  $(11284 - 7655) = 3629 = 19 \times 191$  So, 191 is the required no.

Sum 18. 63 Sum 19.  $LCM + 1 = 2521$

Sum 20.  $LCM \times 5 = 168 \times 5 = 840$  Sum 21. Option (4)

Sum 22. 00 Sum 23. Option (1)

Q.No	Answers
1	3
2	3
3	1
4	3
7	3
8	2
9	1
10	4
11	4
12	1
13	4
14	2
15	3
16	3
17	3
18	2
19	2
20	4
21	3
22	1
23	1
24	4
25	3