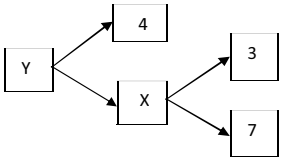
1. REAL NUMBERS

1. The prime factor of $2\times7\times11\times17\times23+23$ is ____
2. A Physical Education Teacher wishes to distribute 60 balls and 135 bats equally among a number of boys. The greatest nu-mber receiving the gift in this way are___
3. The Values of X and Y in the given figure are ____



4. If the LCM of 12 and 42 is 10m+4, then the value of 'm' is ____
5. π is ____
6. $\log_{2015}2015$ = ____
7. The reciprocal of two irrational numbers is ____
8. The decimal expansion of 17/18 is ____
9. $2.54\overline{7}$ is ____
10. Decimal expansion of number $\frac{27}{2\times5\times7}$ has ____
11. The decimal expansion of 189/125 will terminate after ____
12. If $a = 2^3\times3$, $b = 2\times3\times5$, $c = 3^n\times5$and LCM $(a, b, c) = 2^3\times3^2\times5$, then n = ____
13. If n is any natural number, then 6^n-5^n always ends with ____
14. If $\log_2 16= x$ then x= ____
15. The standard base of a logarithm is ____
16. If $\log_{10}2=0.3010$, then $\log_{10}8$ = ____
17. $\log_{10} 0.01$ = ____
18. The exponential form $\log_4 64 = 3$ is ____
19. log 15 = ____
20. The prime factorization of 216 is ____
21. HCF of 4 and 19 is ____
22. LCM of 10 and 3 is ____
23. If the HCF of two numbers is '1' , then the two numbers are called

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24. If the positive numbers a and b are written as a = x^5y^2, b = x^3y^3 where x and y are prime numbers then the HCF(a, b) = ____; LCM (a,b) = ____
25. The product of two irrational numbers is ____
26. $43.\overline{1234}$ is ____ number.
27. log $a^p.b^q$ = ____
28. If 5^3 =125, then the logarithm form ____
29. log $_7$343 = ____

ANSWERS

1) 23; 2) 15; 3) X = 21, Y = 84; 4) 8;
5) An irrational number; 6) 1; 7) Always an irrational number;
8) 2.125; 9) A rational;
10) non-terminating but repeating; 11) 3 places of decimal; 12) 2;
13) 1; 14) 4; 15) 10; 16) 0.9030; 17) – 2; 18) 4^3 = 64; 19) log3 + log 5; 20) $2^3 \times 3^3$; 21) 1; 22) 30; 23) Co-Primes; 24) [x^3y^2; x^5y^3]; 25) Sometimes rational, Some times irrational; 26) a rational number; 27) plog a+q logb; 28) $\log_5 125 = 3$; 29) 3.