|  | epartment of Mathematics | INDIAN SCHOOL AL WADI AL KABIR <br> Class X, Mathematics <br> Worksheet-Real Numbers 16-04-2023 |
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| Q. No. | Questions of 2 Mark each. |  |
| 1. | Explain whether $3 \times 12 \times 101+4$ is a prime number or a composite number. |  |
| 2. | Check whether $12^{n}$ can end with the digit 0 for any natural number n . |  |
| 3. | Find HCF of 612 and 1314 using prime factorisation. |  |
| 4. | Given $\sqrt{3}$ is irrational, prove that $5-2 \sqrt{3}$ is irrational. |  |
| 5. | Find the values of |  |
| Questions of 3 marks each |  |  |
| 6. | Find HCF and LCM of 404 and 96 and verify that HCF $\times$ LCM $=$ Product of the two given numbers. |  |
| 7. | Find the largest number which on dividing 1251, 9377 and 15628 leaves remainders 1, 2 and 3 respectively. |  |
| 8. | On a morning walk, three persons step off together and their step measure $40 \mathrm{~cm}, 42 \mathrm{~cm}$ and 45 cm respectively. What is the minimum distance each should walk, so that each can cover the same distance in complete steps? |  |
| 9. | The HCF of 65 and 117 is expressible in the form $65 m-117$. Find the value of $m$. Also find the LCM of 65 and 117 using prime factorization method. |  |
| 10. | An army contingent of 612 members is to march behind an army band of 48 members in a parade The two groups are to march in the same number of columns. What is the maximum number of columns in which they can march? |  |
| Questions of 5 marks each |  |  |
| 11. | Prove that $(\sqrt{2}+\sqrt{5})$ is irrational. |  |



