

APEEJAY SCHOOL, SHEIKH SARAI
1st Periodic Test (2017-2018)
CLASS-IX
MATHEMATICS

M.M-20

Time-1hr.

1. The factors of $x^3 - 8$ are ----- & -----, (1)
2. Expand $(a - b - 3c)^2$ (1)
3. Find the value of $(-100)^3 + (45)^3 + (55)^3$ by using a suitable identity. (2)
4. If $p(x) = 2x^2 - 5x + 4$, find $p(0)$, $p(-1)$. (2)
5. Find the value of 'k' if $(x - 3)$ is a factor of $x^2 - 3x + k$. (2)
6. Factorise $x^3 - 23x^2 + 142x - 120$. (3)
7. Factorise $x^2 + y^2 + 16z^2 + 2xy + 8yz + 8xz$. (3)
8. Find 'a' and 'b' in the following: $(\sqrt{3}-1) / (\sqrt{3}+1) = a - b\sqrt{3}$. (3)
9. Represent the following number on the number line: $\sqrt{9.2}$ (3)