5. For any integer n, we can express it in one of the forms, 3m, 3m+1, and 3m+2 for some m \(\frac{7}{2} \).

If n can be expressed as 3m, then n=3m is divisible by 3. If n expressed as 3m+1, then m=3 n+2=(3m+1)+2=3(m+1) is divisible by 3.

If n expressed as 3m+2, then n+4=(3m+z)+4=3(m+2) is divisible by 3.

Hence, for any integer n, at least one of the integers, n, n+2, n+4, is divisible by 3.