1. If **n** is odd, **p** is even, and **q** is odd, what is $n + p + q$? **E**
2. If **r** is a prime number greater than 2, and **s** is odd, what is **rs**? **ODD**
3. If **t** is odd, what is t^4? **ODD**
4. If **u** is even and **w** is odd, what is $u + uw$? **E**
5. If $x \div y$ yields an odd integer, what is **x**?**CBD**
6. If $a + b$ is even, what is **ab**? **CBD**
7. If **c**, **d**, and **e** are consecutive integers, what is **cde**? **E**
8. If **f** and **g** are prime numbers, what is $f + g$? **CBD**
9. If **h** is even, **j** is odd, and **k** is odd, what is $k(h + j)$? **ODD**
10. If **m** is odd, what is $m^2 + m$? **E**
11. If **n**, **p**, **q** and **r** are consecutive integers, what is their sum? **E**
12. If $t = s - 3$, what is $s + t$? **ODD**
13. If **u** is odd and **w** is even, what is $(uw)^2 + u$? **ODD**
14. If **xy** is even and **z** is even, what is $x + z$? **CBD**
15. If **a**, **b**, and **c** are consecutive integers, what is $a + b + c$? **CBD**
16. If x, y and z are distinct prime numbers and xy is even and xz is even, what is the value of x? **2**
17. If **a** and **b** are both prime numbers greater than 10, which of the following CANNOT be true? Indicate all that apply!
    I. **ab** is an even number.
    II. The difference between **a** and **b** equals 117.
    III. The sum of **a** and **b** is even.
18. Given that there are x unique factors of x and that $x > -10$. What is the value of integer x? **1, 2**
19. If p, q and r are integers, is pq+r even given that p+r is even and q+r is odd? **CBD**
20. If **a**, **b**, and **c** are integers and $ab + c$ is odd, which of the following must be true? Indicate all that apply!
    I. $a + c$ is odd
    II. $b + c$ is odd
    III. **abc** is even
21. If x and y are integers, and $w = x^2y + x + 3y$, which of the following statements must be true? Indicate all such statements.
    a) If w is even, then x must be even.
    b) If x is odd, then w must be odd.
    c) If y is odd, then w must be odd.
    d) If w is odd, then y must be odd.
22. w , x and y are consecutive even integers with wxy = 0 and w < x < y
    Column A: x
    Column B: 0 CBD
23. If x and y are positive odd integers, then which of the following must also be an odd integer? Indicate all that apply!
    a) x^{y+1}
    b) $x(y + 1)$
    c) $(y + 1)^{x-1} + 1$
24. 202 divided by some prime number **x** yields an odd number. 411 multiplied by some prime number **y** yields an even number
    Quantity A: x
    Quantity B: y Equal

25. Quantity A: The tenths digit of the product of two even integers divided by 4.
Quantity B: The tenths digit of the product of an even and an odd integer divided by 4. CBD

26. If n is a nonnegative integer, then n(n+1)(n+2) is

A) Even only when n is even
B) Even only when n is odd
C) Odd whenever n is odd
D) Divisible by 3 only when n is odd
E) Divisible by 12 whenever n is even