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combinações

01) $\frac{P_5 - A_{4,3}}{C_{4,2}}$ $P_5 = 5! = 5.4.3.2.1 = 120$ $A_{4,3} = 4.3.2 = 24$ $C_{4,2} = \frac{4.3}{2.1} = 6$ $\frac{120-24}{6}$

$\frac{96}{6} = 16$

02) $AC_{8,6} = \frac{8.7.6.5.4.3}{6.5.4.3.2.1} = \frac{8.7}{2.1} = \frac{56}{2} = 28$

03) $\frac{4.3.2.6.5}{5.4.3.2.1} = 6.1 = 6$ $6.10 = 60$

04) $C_{5,3}$ $\frac{5!}{3!2!} = \frac{(5.4.3!)}{3!.2!} = \frac{5.4}{2!} = \frac{20}{2} = 10$

05) $\frac{6.5.4.3}{4.3.2.1} = \frac{6.5}{2.1} = \frac{30}{2} = 15$ $15.6 = 90$ resposta letra C

06) $N = C(4,3)^3 = \frac{4.3.2}{3.2.1} = \frac{4}{1} = 4^3 = 4.4.4 = 64$ resposta letra E

07) $10.4 = 40$ $4+2+1 = 7$ $40+7 = 47$ resposta letra E

08) $9-3 = 6$ $[C(6,2)]$. $[C(4,2)]$

$A = \frac{6!}{4!2!} = \frac{6.5.4.3}{4.3.2.1} = \frac{6.5}{2.1} = \frac{30}{2} = 15$ $B = \frac{4!2!}{2!} = \frac{4.3}{2.1} = 6$

08) $[C(2,2)] = 1$

$15.6.1 = 90$ resposta letra D

09) $[C(10,1)] = \frac{10!}{1!(10-1)!} = \frac{10!}{9!} = \frac{10.9.8.7.6.5.4.3.2}{9.8.7.6.5.4.3.2.1} = \frac{10}{1} = 10$

$[C(10,2)] = \frac{10!}{2!(10-2)!} = \frac{10!}{2!8!} = \frac{10.9.8.7.6.5.4.3}{8.7.6.5.4.3.2.1} = \frac{10.9}{2.1} = \frac{90}{2} = 45$

$[C(10,3)] = \frac{10!}{3!(10-3)!} = \frac{10!}{3!7!} = \frac{10.9.8.7.6.5.4}{7.6.5.4.3.2.1} = \frac{10.9.8}{3.2.1} = \frac{720}{6} = 120$

$10+45+120 = 175$ $\quad 175.3 = 525$ resposta letra A