

Taller 5.

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1.)

$$a) C(20, 7) = \frac{20!}{13! 7!} = \underline{77.520}$$

$$b) C(5, 3) = \frac{5!}{2! 3!} = \underline{10}$$

$$C(15, 4) = \frac{15!}{11! 4!} = 1365$$

$$\text{Total} = 10 \times 1365 = \underline{13650}$$

2.)

$$a) C(52, 5) = \frac{52!}{47! 5!} = \underline{2'598.960}$$

$$b) C(13, 5) = \frac{13!}{8! 5!} = 1287 \times 4 = \underline{5148}$$

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$$c) c(4,3) = \frac{4!}{1 \cdot 3!} = 4 \times 13 = 52$$

$$c(4,2) = \frac{4!}{2! \cdot 2!} = 6 \times 12 = 72$$

$$4 \times 6 = \underline{24}$$

$$52 \times 72 = 3744.$$