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Problem

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QUESTION

From a group of 16 customers, 4 are to be chosen to receive a special gift. Assuming that the order in which the customers are chosen is irrelevant, how many groups of 4 customers can be chosen?

(If necessary, consult a list of formulas.)

tells us to use
combination
b/c the order
does not matter

$${}_nC_r = \frac{n!}{r!(n-r)!}$$

n = total
r = how many chosen

$${}_{16}C_4 = \frac{16!}{4!(16-4)!}$$

$$\frac{16 \cdot 15 \cdot 14 \cdot 13 \cdot 12!}{4 \cdot 3 \cdot 2 \cdot 1 \cdot 12!}$$

$$\frac{16 \cdot 15 \cdot 14 \cdot 13}{4 \cdot 3 \cdot 2 \cdot 1} = \frac{43,680}{24} = \boxed{1,820}$$

$${}_nC_r = \binom{n}{r} = \frac{n!}{r!(n-r)!}$$

	A	B	C	D	E	F
1						
2		Combination	1820	=COMBIN(n,r)		n = total
3						r = amount you are choosing

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