

13.3 Review - Warm - up

1. A notebook computer manufacturer offers 5 patterns for the computer case and 3 sizes of memory. If you choose one pattern and one memory size, how many ways are possible to customize the notebook computer?

$$5 \cdot 3 = \boxed{15}$$

2. How many different ways can 4 children board a bus if they board one at a time?

$$4! = 4 \cdot 3 \cdot 2 \cdot 1 = \boxed{24}$$

3. How many different ways can you choose keys for 3 rooms of your house from a keychain holding 10 keys?

$$10^C_3 = \boxed{120}$$

4. How many different ways can you choose 2 shirts from a closet that has 9 shirts?

$$9^C_2 = \boxed{36}$$

5. How many different ways can you choose 4 pieces of fruit from a basket of 12 pieces of fruit?

$$12^C_4 = \boxed{495}$$