



#01 Fundamental Principle of Counting

Total points **5/5** ?

✓ The letters A, B, C, and D are used to form four-letter passwords. How many passwords are possible if letters can be repeated? *

1/1

$4 \times 4 \times 4 \times 4 = 256$



$4 \times 3 \times 2 \times 1 = 24$

$4 + 4 + 4 + 4 = 16$

$4 + 3 + 2 + 1 = 10$

✓ How many license plates consisting of three letters from English alphabets followed by three numbers are possible when no repetition is allowed? *

$26 \times 25 \times 24 \times 10 \times 9 \times 8 = 11232000$ ✓

$26 \times 26 \times 26 \times 10 \times 10 \times 10 = 17576000$

$26 \times 25 \times 24 \times 9 \times 8 \times 7 = 7862400$

$26 \times 26 \times 26 \times 9 \times 9 \times 9 = 12812904$

✓ How many 5-digit even numbers can be formed using the digits 4, 6, 7, 2, 8 if digits can be repeated? *

$5 \times 5 \times 5 \times 5 \times 5 = 3125$

$5 \times 5 \times 5 \times 5 \times 4 = 2500$ ✓

$5 \times 4 \times 3 \times 2 \times 1 = 120$

None of these

✓ How many outfits are possible with 5 pairs of jeans, 8 t-shirts, and 2 pairs of shoes? *

40

10

15

80 ✓



✓ At Pizza hut you are deciding on what you want for dinner. The pizza offers 8 different veggies, 4 different cheeses, 3 different crust types and 2 different sauces. How many different pizzas do you have to choose from? *

1/1

192



32

40,320

51200

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