

Simple Counting Beginner

You may use your GED calculator and formula sheet for each of the following.

Examine the graphic below, then answer #1-3.



1. How many possible pizzas can be made by choosing one type of crust, one sauce, and one topping?
2. Jan is a vegetarian and does not eat any meat or fish. How many possible pizzas can Jan make by choosing one type of crust, one sauce, and one vegetarian topping?
3. Frederico, on the other hand, LOVES meat. How many possible combinations of one crust, one sauce, and one meat or fish could Frederico order?
4. There are two students running for president, three running for vice president, and five running for treasurer of the student council. How many possible student council teams can be formed by electing one student to each position?
5. Jack is doing a science experiment where he tests the rate of corrosion of various coins when exposed to different acidic substances. He is using 5 kinds of acid and the following coins in his experiment: penny, nickel, dime and quarter. How many possible acid and coin combinations could he test?
6. Mac's Greasy Spoon offers a breakfast special where the diner chooses three eggs cooked any style (overeasy, fried, poached, or scrambled), a type of breakfast meat (bacon, ham, or sausage), and hash browns or homefries. They also choose white, rye, or whole wheat toast. How many possible breakfast options can be made by choosing one style of eggs, one meat, one type of potato, and one toast?

Use the food truck menu to answer #7-9



7. How many possible lunch combinations can be made by choosing one type of traditional wiener, one side, and one beverage?

8. How many possible sausage combinations can be created by choosing one type of sausage and one of the listed choices of toppings?

9. Linda tagged along with her friends but she isn't very hungry. She just wants a drink and a side. How many possible ways can she choose one drink and one side?

For #10-11, refer to the graphic below.

What is your fantasy VILLAIN title?

1) MONTH of Birthday:

Jan.) The Black	July) The White
Feb.) The Vengeful	Aug.) The Ugly
Mar.) The Dark	Sep.) The Treacherous
Apr.) The Red	Oct.) The Blue
May) The Cursed	Nov.) The Wicked
June) The Savage	Dec.) The Green

2) DAY of Birthday:

1) Gargoyle	16) Beast
2) Goblin	17) Dragon
3) Creature	18) Ghost
4) King/Queen	19) Dwarf
5) Witch/Warlock	20) Unicorn
6) Guardian	21) Warrior
7) Fairy	22) Spirit
8) Knight	23) Thief
9) Elf	24) Mermaid/Merman
10) Assassin	25) Cyclops
11) Sorcerer/Sorceress	26) Troll
12) Giant	27) Orc
13) Werewolf	28) Pirate
14) Wizard	29) Vampire
15) Ogre	30) Prince/Princess
	31) Serpent

3) Favorite COLOR:

RED) "of the Night"	PURPLE) "of the East"
BLUE) "of the Seas"	ORANGE) "of the West"
GREEN) "of the Forest"	BROWN) "of the Desert"
WHITE) "of the North"	CYAN) "of the South"
BLACK) "of the Shadows"	PINK) "of the Mountains"
YELLOW) "of the Dead"	

10. A website offers up this meme to determine your fantasy villain title. How many possible names can be made by choosing one month, one day, and one color?

11. You remember that your friend was born on an even day in August but you don't remember which day or his favorite color. How many possible names can be made by choosing August, an even day, and a favorite color?

12. The students in Jan's adult education class are doing a project where they choose one math concept to learn about in order to become an "expert" and teach the rest of the class. Each student must pick one type of rational number (whole numbers, integers, decimals, or fractions) and one of the basic operations (addition, subtraction, multiplication, or division) to present on. They are also allowed to choose to make an instructional video or to present to the class live. How many possible projects can be done by choosing one type of rational number, one basic operation, and one delivery method (video or live)?

Answers: 1) 108 2) 60 3) 48 4) 30 5) 20 6) 72 7) 18 8) 77 9) 9 10) 4092 11) 165
12) 32