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 weiner, 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 Feb.) The Vengeful

Mar.) The Dark Apr.) The Red

May) The Cursed June) The Savage

1) Gargoyle

2) Goblin

3) Creature

4) King/Queen

5) Witch/Warlock

6) Guardian

7) Fairy

8) Knight

9) Elf

10) Assassin

11) Sorcerer/Sorceress

12) Giant

13) Werewolf

14) Wizard

15) Ogre

Favorite COLOR:

RED) "of the Night" BLUE) "of the Seas" GREEN) "of the Forest" WHITE) "of the North" BLACK) "of the Shadows"

YELLOW) "of the Dead"

July) The White

Aug.) The Ugly

Sep.) The Treacherous

Oct.) The Blue

Nov.) The Wicked

Dec.) The Green

2) DAY of Birthday:

16) Beast

17) Dragon

18) Ghost

19) Dwarf

20) Unicorn

21) Warrior

22) Spirit

23) Thief

24) Mermaid/Merman

25) Cyclops

26) Troll 27) Orc

28) Pirate

29) Vampire 30) Prince/Princess

31) Serpent

PURPLE) "of the East" ORANGE) "of the West" BROWN) "of the Desert" CYAN) "of the South" PINK) "of the Mountains"

- 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