

Instructions

In this worksheet, you will solve various math problems related to obtaining Primogems and making Wishes in the game Genshin Impact. Be sure to show your calculations and reasoning!

1. Primogem Basics

In Genshin Impact, players can earn Primogems through various activities like quests, achievements, and events. A standard wish costs 160 Primogems. If you currently have

Primogems, how many wishes can you make? Show your calculations below.

2. Earning Primogems

You complete a set of daily commissions, which reward you with 60 Primogems each day. Calculate how many Primogems you will earn in one week (7 days). Show your workings.

3. Multiple Wishes

If you save for a month (30 days), how many Primogems will you have earned from daily commissions? If you start with

Primogems, how many wishes can you make after a month? Provide calculations.

4. Getting Characters

It currently takes an average of 90 wishes to get a 5-star character due to the game's pity system. If you can make

wishes with your Primogems, how many more wishes do you need to ensure you get a 5-star character? Show your work.

5. Event Banners

During special events, there's a higher chance of finding featured characters. If the chance of getting a featured character is increased to 50% during an event, how many wishes would you need, on

average, to obtain a featured character? Assume the chance remains the same regardless of previous wishes. Explain your reasoning below.

Bonus Challenge

Imagine a new event is introduced that rewards you with 300 Primogems after completing a specific challenge. If you complete this challenge in 4 days, calculate your total Primogems if you earn from daily commissions as well. Include your final answer.