**Grade 7 Math Test - Word Problems**

Instructions:

* Write your calculation steps
* Indicate your answer with an arrow
* Answers should end with the correct metrics ($, km, kg, pounds, etc...)
  + Otherwise, marks will be deducted

**Section A: Fractions - Multiplication and Division**

**1.** SypherPK has 2¾ cups of flour. He uses ⅔ of it to make cookies. How many cups of flour did he use for the cookies?

**2.** A pizza is cut into 8 equal slices. Wukong eats 3 slices, then gives ½ of the remaining slices to his sister. How many slices does his sister receive?

**3.** Peppa (Pig) bought 4½ pounds of apples. She used ¾ of them to make apple pie. Then she used ⅓ of the remainder to make apple sauce. How many pounds of apples did she use for apple sauce?

**4.** Princess Zelda has 36 stickers. She gives away ⅔ of them to her friends. Then she uses ¾ of the remainder to decorate her notebook. How many stickers does she have left?

**Section B: Decimals**

**5.** Pirate Hunter Roronoa Zoro runs 3.5 kilometers every morning. If he runs for 12 days, what is the total distance he covers?

**6.** I asked ChatGPT to write a question, here it is. A box contains 24.6 kilograms of rice. The rice is divided equally into 6 smaller bags. How much rice is in each bag?

**7.** Son Goku has $127.50. He spends $45.80 on groceries, then spends 0.3 of the remainder on gas. How much money does he spend on gas?

**Section C: Percentages**

**8.** Fortnite V-Bucks were sold at $10 last year. The price now increases to $15. Calculate the percentage change.

**9.** A Mofusand shirt originally costs $60. It is on sale for 25% off. What is the sale price of the Mofusand shirt?

**10.** In a class of 32 students, 75% passed the data science entry level exam. How many students **failed** the test?

**11.** Left-handed Amy scored 108 points out of 120 possible points on her math exam. What percentage did she score?

**12.** A badminton store sells 180 items in one day. 40% were rackets, and 30% of the remainder were shuttlecocks. How many shuttlecocks were sold?

**Section D: Harder Questions**

**13.** Pikachu has a 2.5-liter bottle of juice. He drinks ⅖ of it during lunch. Later, he gives 60% of the remainder to his friends. How many liters of juice does he have left?

**14.** Gojo Satoru saves $15.75 each week. After saving for several weeks, he spends 0.4 of his total savings on a new backpack that costs $37.80. How many weeks did he save?

**15. Troll Question**

Luffy recently achieved Gear 5 and wants to know how strong he is.

* His base form deals 120 damage
* Gear 2 deals 25% more damage than base form
* Gear 3 deals 180 more damage than Gear 2
* Gear 4’s damage is the two times the average of Gear 2 and Gear 3 damages, plus an additional 15%
* Gear 5's damage is Gear 4's damage plus 1.5 times the percentage increase from base form to Gear 4 (applied to the base form damage)

Calculate the overall percentage increase damage from his base to Gear 5.