

2025 August AMC 10 Week 1 Day 1 - Percents

1 (1分) A store is selling a commodity. Due to reduction of purchase price by **6.4%**, the profit rate increased by **8%**. Then the original profit ratio of this commodity is _____.

- A. 16% B. 17% C. 18% D. 19% E. 20%

2 (1分) A fruit company purchased **52,000** kilograms of apples at a cost of **0.98** dollars per kilogram, with an additional **1,840** dollars in transportation and other expenses. The estimated loss due to spoilage is **1%**. If the company hopes to make a **17%** profit after selling all the apples, what should the retail price per kilogram be?

- A. 1 dollars B. 1.1 dollars C. 1.2 dollars D. 1.3 dollars E. 1.5 dollars

3 (1分) A container **A** holds **90 mL** of saline solution with a salt concentration of **10.5%**, and container **B** holds **210 mL** of saline solution with a salt concentration of **11.7%**. If the same amount of solution is taken from both containers and poured into the other container, then stirred evenly, the resulting salt concentrations in both containers become equal. How many milliliters of solution were poured out from each container?

- A. 55 B. 57 C. 59 D. 63 E. 67

4 (1分) A store purchased a batch of goods and planned to sell them at a **40%** markup. After selling **80%** of the goods at the marked-up price, the store decided to sell the remaining goods at **50%** off in order to clear the stock quickly. After all the goods were sold, the store was unexpectedly charged an additional **150** dollars tax, which caused the actual profit to be only half of the originally expected profit. What was the cost price of this batch of goods?

- A. 2500 dollars B. 2600 dollars C. 2700 dollars D. 2800 dollars E. 2900 dollars

5 (1分) Three types of saline solutions with salt concentrations of **20%**, **18%**, and **16%** are mixed in certain proportions to obtain **100 g** of a solution with a salt concentration of **18.8%**. If the

amount of 18% saline solution is 30 g more than that of the 16% saline solution, how many grams of the 16% saline solution were used?

- A. 6 grams B. 10 grams C. 12 grams D. 15 grams E. 20 grams