

2025 August AMC 8 Week 1 Day 1 - Percents

1 (1分) An item is marked at **220** dollars. It is sold at a **50%** discount off the marked price, and still yields a profit of **10%**. What is the cost price of this item, in dollars?

- A. 200 B. 150 C. 120 D. 100 E. 80

2 (1分) A restaurant has an average monthly revenue of **200,000** dollars. According to regulations, the restaurant must pay a business tax of **5%** of its revenue, and also pay an urban construction fee equal to **7%** of the business tax.

What is the total amount of business tax and urban construction fee the restaurant should pay in one year?

- A. 108,400 dollars B. 128,400 dollars
C. 157,400 dollars D. 176,400 dollars
E. 288,000 dollars

3 (1分) To mortgage my car, I paid half of its price in the first month, then paid $\frac{1}{10}$ of its original price in the second month. I still owe the car company **10,000** dollars. The price of my car is _____.

- A. 10,000 dollars B. 15,000 dollars C. 20,000 dollars D. 25,000 dollars E. 30,000 dollars

4 (1分) A certain product is originally sold at its regular price, with a profit of **20%** of the cost per unit. Later, it is sold at **90%** of the original price, and the total profit increases by **20%** compared to before. What is the multiple of the new sales volume compared to the original sales volume?

- A. 2 B. 2.5 C. 3 D. 3.5 E. 4

5 (1分) A shop goes to the apple-producing area to purchase apples at a cost of **1.2** dollars per kilogram. The distance from the production site to the shop is **400 km**, and the transportation fee is **1.5** dollars per ton per kilometer. If there is a **10%** loss during transportation and sales, and

the shop wants to earn a profit of 15% based on the purchase cost of the apples, what should the retail price be per kilogram?

- A. 2 dollars B. 2.1 dollars C. 2.2 dollars D. 2.3 dollars E. 2.4 dollars