Python Program Evaluation Report

Score Summary:
Correct steps: 7 / 15 ■
Wrong / incomplete steps: 8 / 15 ■
Percentage: 46.6%

Step-by-Step Analysis
1. Asking for name and age – ■ Correct (small typo in prompt).
2. Greeting message – ■ Correct.
3. Grocery list – ■ Correct.
4. Tuple for prices – ■ Correct.
5. Set for payment methods – ■ Correct.
6. Dictionary for items and prices – ■ Correct.
7. Asking which item to buy – ■ Correct.
8. Checking if item exists – ■ Wrong, used equality instead of 'in'.
9. Asking quantity – ■ Correct.
10. Calculate total cost – ■ Wrong, attempted int * dict.
11. Discount check – ■ Correct logic but failed due to step 10.
12. Payment method check – ■ Correct match usage but misplaced before loop.
13. While loop – ■ Wrong condition, string vs set comparison.
14. Casting age to float – ■ Implicit format instead of explicit casting.
15. Boolean check if over 18 – ■ Overwrote variable with bool class.

Correct Fixed Code:

```python
customer_name = str(input("Enter your name please: "))
customer_age = int(input("Enter your age please: "))
print(f"Welcome, {customer_name}! You are {customer_age} years old.")

grocery_items = ["carrots", "cabbage", "onion", "tomato", "potato"]
grocery_prices = (2.4, 3.2, 1.6, 1.8, 1.3)
grocery_payment = {"cash", "card", "mobile"}
grocery_dict = {"carrots": 2.4, "cabbage": 3.2, "onion": 1.6, "tomato": 1.8, "potato": 1.3}

customer_choice = str(input("Please enter the item you want to buy: "))
if customer_choice in grocery_dict:
    print(f"The price is ${grocery_dict[customer_choice]}")
    num_of_items = int(input("How many of this item do you want to buy: "))
    total_cost = num_of_items * grocery_dict[customer_choice]
    if total_cost > 50:
        print("You get a discount!")
    else:
        print("No discount for this purchase!")

    while True:
        payment = input("Enter your payment method (cash, card, mobile): ")
        if payment in grocery_payment:
            match payment:
                case "cash":
                    print("Please pay at the counter.")
                case "card":
                    print("Please insert your card.")
                case "mobile":
                    print("Please scan the QR code.")
            break
        else:
            print("Invalid payment method, try again.")

    age_float = float(customer_age)
    print(f"Your age as float: {age_float:.1f}")

    is_adult = customer_age > 18
    if is_adult:
        print("Adult")
```

```python
        else:
            print("Minor")
else:
    print("Sorry! Item not found.")
```