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1. Several students decide to start a T-shirt company. After initial expenses of $\$ 375$, they purchase each T-shirt wholesale for $\$ 4.25$. They sell each T-shirt for $\$ 15.00$. How many T-shirts must they sell to break even?
2. Suppose you are starting an office-cleaning service. You have spent $\$ 317$ on equipment. To clean an office, you use $\$ 5.30$ worth of supplies. You charge $\$ 22.50$ per office. How many offices must you clean to break even?
3. Suppose you invest $\$ 800$ in equipment to put pictures on T-shirts. You buy each T-shirt for $\$ 5.50$. After you have placed the picture on a shirt, you sell it for $\$ 21.50$. How many T-shirts must you sell to break even?

## Answers to Homework 20.2

1. 35 t-shirts
2. 19 offices
3. 50 t-shirts
