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?

Cost =
$$5.3^{\circ} \times +317$$

lneome = $22.5^{\circ} \times$
 $22.5^{\circ} \times = 5.3^{\circ} \times +317$
 $-5.3^{\circ} \times -5.3^{\circ} \times$
 $17.2^{\circ} \times = \frac{317}{17.2^{\circ}}$
 $\times = 18.43$

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?

licane =
$$21.5^{\circ} \times$$

 $21.5^{\circ}_{x} = 5.5^{\circ}_{x} \times +800$
 $-5.5^{\circ}_{x} - 5.5^{\circ}_{x} \times$
 $\frac{16 \times = 800}{16}$
 $x = 50$

Cast = 5,50x +800