$\qquad$

## Multiplying Two Decimals

Caroline earns $\$ 2.40$ per hour for babysitting her brother. She babysat last night for 3.25 hours. How much did she earn?

First, estimate your product so you can check for reasonableness.
$\$ 2.40 \times 3.25$

$\$ 2 \times 3=6 \quad$ Caroline earned about \$6.00.

Step 1: Multiply each factor by powers of 10 to create whole numbers. Then multiply these numbers.

| $2.40 \times 10^{2}=240$ |  |
| ---: | ---: |
| $3.25 \times 10^{2}=325$ | 325 |
| $\times \quad 240$ |  |
| 000 |  |
| 13,000 |  |
| $+65,000$ |  |
| 78,000 |  |

Step 2: Because you multipled each factor by $10^{2}$, you must divide your answer by $10^{2}$ two times.
$78,000 \div 10^{4}=7.8000$
$7.8000=\$ 7.80$
Caroline earned $\$ 7.80$ last night. Because $\$ 7.80$ is close to your estimate of $\$ 6$, your answer is reasonable.

Find each product. Check by estimating.

1. $0.2 \times 4.6$ $\qquad$ 2. $3.9 \times 7.1$ $\qquad$ 3. $8.54 \times 0.1$ $\qquad$
2. $0.53 \times 6.4$ $\qquad$ 5. $9.3 \times 5.86$ $\qquad$ 6. $0.37 \times 4.4$ $\qquad$
3. Jackie wants to buy a new CD player. It costs $\$ 32.95$. She has saved $\$ 26$ and has a coupon for $30 \%$ off the price. Does Jackie have enough money to buy the CD player?
