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.

 2.40×3.25 \downarrow \downarrow $2 \times 3 = 6$ 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 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

Name

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 × 4.6 ______2. 3.9 × 7.1 ______3. 8.54 × 0.1 ______
4. 0.53 × 6.4 ______5. 9.3 × 5.86 ______6. 0.37 × 4.4 ______
7. 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?