b. If the ribbon costs 10¢ per foot, what is the total cost of the ribbon in dollars? Explain your reasoning, including how you decided where to place the decimal.

$$126 \times 10¢ = 1260 ¢ \ (\div 100) = \$12.60$$

When I multiply by 10, all the digits got 10 times larger and moved one place to the left. That was 1,260 cents. To find dollars, I divided by 100 (because there are 100 cents in a dollar) which moved my digits back 2 places to the left, so my decimal point went between 2 and 6.

c. A manufacturer is making 1,000 times as many bows as Jeanne to sell in stores nationwide. Write an expression using exponents to show how many yards of ribbon the manufacturer will need. Do not calculate the total.

$$84 \times 10^3 \times 1.5$$