




Warm-Up

One friend bought a package of bobbers on sale. He also bought some SPF15 sunscreen \$7.53 and a floatation vest for \$44.96. Sales tax was \$3.74, how much did he spend in total?

$$\begin{array}{r}
 30.87 \\
 17.53 \\
 44.96 \\
 + 3.74 \\
 \hline
 \$ 57.10
 \end{array}$$

★ **Fishing Opener Sale** ★
Catch your limit of savings! 

Bobbers 3 for 87¢	8-pound test fishing line
	regular \$4.84
Environmentally safe tin split shot \$2.07	invisible \$7.47
Leaded split shot 94¢	fluorescent \$5.14
	No-See-Line
	Tackle boxes
	Two trays \$7.96
	Three trays \$9.96
	
	Spinning reels: \$9.88, \$12.54, \$18.84, \$24.96
	Spinning rods: \$9.97, \$18.97, \$22.96, \$28.94

4.4 Multiplying Decimals

- Step 1 Multiply them as if whole #'s
(don't line up the decimals)
- Step 2 Count total # of decimal places (right)
- Step 3 Multiply like normal then put decimal back in, # of spaces from right

Ex 1 Multiplying Decimal Numbers

a) 8.34 times 4.2

$$\begin{array}{r}
 8.34 \\
 \times 4.2 \\
 \hline
 1668 \\
 + 33360 \\
 \hline
 35.028
 \end{array}$$

2 spot
1 spot
3

35.028

b) 45.2

$$\begin{array}{r}
 45.2 \\
 \times 0.25 \\
 \hline
 2260 \\
 + 9040 \\
 \hline
 11300 \\
 \hline
 11.300
 \end{array}$$

total
decimals
spots
3

Ex 2 Multiply Write Zeros as Placeholder in Product

a) 0.042 by 0.03
 $\frac{3}{}$ $\frac{2}{}$

$$\begin{array}{r} 0.042 \\ \times 0.03 \\ \hline 0.00126 \\ 0.00126 \end{array}$$

5 decimals

b) $(0.003)^2$
 0.003×0.003

$$\begin{array}{r} 0.003 \\ \times 0.003 \\ \hline 0.000009 \\ 0.000009 \end{array}$$

6 decimals

Ex 3 Estimating Before Multiplying Decimal Numbers

a) $(76.34)(12.5)$ *3 decimals*

Est [front end rounding]

$$\begin{array}{r} 80 \\ \times 10 \\ \hline 800 \end{array}$$

$$\begin{array}{r} \text{Ex} \\ 76.34 \\ \times 12.5 \\ \hline 38170 \\ 152680 \\ + 763400 \\ \hline 954250. \end{array}$$

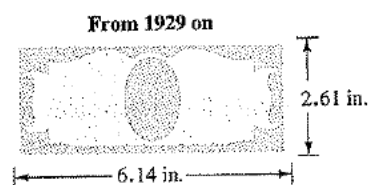
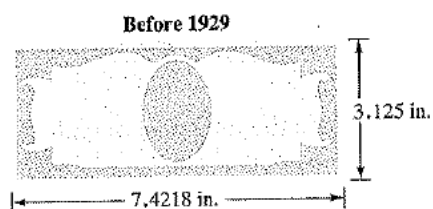
954.250

b) 58.6×17.4

Est
 $\begin{array}{r} 60 \\ \times 20 \\ \hline 1200 \end{array}$

$$\begin{array}{r} \text{Ex} \\ 58.6 \\ \times 17.4 \\ \hline 2344 \\ 42020 \\ 58600 \\ \hline 1029.64 \end{array}$$

Exit Card-



(a) Find the area of each \$20 bill, rounded to the nearest tenth.

(b) What is the difference in the rounded areas?

48. (a) Find the perimeter of each \$20 bill, to the nearest hundredth.

(b) How much less is the perimeter of today's bills than the bills printed before 1929?