

3. Solve. Use words, numbers, or pictures to explain how your answers to Parts (a) and (b) are related.

a) $14 \times 30 = \underline{420}$

$$\begin{aligned} & (10 \times 30) + (4 \times 30) \\ &= 300 + 120 \\ &= 420 \end{aligned}$$

b) $1.4 \times 30 = \underline{14} \text{ tenths} \times 30 = \underline{420 \text{ tenths}}$
 $420 \text{ tenths} = 42.0$

The parts are related because it is the same digits.

1.4 is $\frac{1}{10}$ of 14, I have to shift the place values once to the right.

How are (a) and (b) related? (Hint: Think about place value).

4. Multiply using the standard algorithm.

a) $623 \times 22 = \underline{13,706}$

$$\begin{array}{r} 623 \\ \times 22 \\ \hline 1246 \\ 12460 \\ \hline 13706 \end{array}$$

b) $614 \times 401 = \underline{246,214}$

$$\begin{array}{r} 614 \\ \times 401 \\ \hline 614 \\ + 245600 \\ \hline 246214 \end{array}$$