

1. Complete each of the following multiplications. Simplify your answers and identify any similarities.

a)

$$\begin{array}{r} 21 \\ \times 4 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 23 \\ \times 12 \\ \hline \end{array}$$

c)

$$\begin{array}{r} 20+1 \\ \times 4 \\ \hline \end{array}$$

d)

$$\begin{array}{r} 20+3 \\ \times 10+2 \\ \hline \end{array}$$

e)

$$\begin{array}{r} 2x+1 \\ \times 4 \\ \hline \end{array}$$

f)

$$\begin{array}{r} 2x+3 \\ \times x+2 \\ \hline \end{array}$$

g)

$$(4)(2x+1)$$

h)

$$(x+2)(2x+3)$$

2. Complete each of the following multiplications. Simplify your answers and identify any similarities.

a)

$$\begin{array}{r} 45 \\ \times 11 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 134 \\ \times 2 \\ \hline \end{array}$$

c)

$$\begin{array}{r} 40+5 \\ \times 10+1 \\ \hline \end{array}$$

d)

$$\begin{array}{r} 100+30+4 \\ \times 2 \\ \hline \end{array}$$

e)

$$\begin{array}{r} 4x+5 \\ \times x+1 \\ \hline \end{array}$$

f)

$$\begin{array}{r} x^2+3x+4 \\ \times 2 \\ \hline \end{array}$$

g) $(x+1)(4x+5)$

h) $(2)(x^2+3x+4)$