

Partial Products

$$352 \div 8$$

Step 1: Draw hangman \rightarrow dividend inside \rightarrow divisor out

of groups pulled out

$$\begin{array}{r} 8 \boxed{352} \\ -160 \\ \hline 192 \end{array}$$

Step 2: Pull out groups of the divisor (8)

ex: $8 \times 20 = 160$

Step 3: Subtract total (160) from dividend. Now you have a new dividend! (192)

Step 4: Keep pulling out groups until you have 0 as a dividend or your dividend is less than your divisor.

[cont.]

Step 5: Find answer!

$$8 \boxed{352}$$

Add up the groups you took out.

This is \leftarrow your remainder.

$$\begin{array}{r} 160 \\ -192 \\ \hline 24 \\ | \\ 0 \end{array}$$

(44)

Step 6: Check your work with multiplication!

$$\begin{array}{r} 44 \\ \times 8 \\ \hline 352 \end{array} \checkmark$$

[continued]

$$\begin{array}{r} 22 \boxed{4,136} \\ 2,200 \\ \hline 1,936 \\ -1,760 \\ \hline 176 \\ -110 \\ \hline 66 \\ -66 \\ \hline 0 \end{array} \quad \begin{array}{r} 100 \\ 80 \\ 5 \\ 3 \\ \hline 188 \end{array}$$

$$\begin{array}{r} 100 \\ + 80 \\ + 5 \\ + 3 \\ \hline 188 \end{array}$$

$$\begin{array}{r} \times 188 \\ \times 22 \\ \hline 376 \\ + 4136 \\ \hline 4,136 \checkmark \end{array}$$

WORK

$$\begin{aligned} 22 \times 100 &= 2200 \\ 22 \times 80 &= 1,760 \\ 22 \times 5 &= 110 \\ 22 \times 3 &= 66 \end{aligned}$$