

# Dividing by 1-Digit

- Division means to separate into equal groups.

$$246 \div 7 =$$

**Queen Quotient:**  
The Queen lives in the castle and always has the answers

**Sir Remainder:**  
left overs

\* Think of it as a roof that hangs over the edge of the castle like

**DIVISOR:**  
Outside the castle;  
It's the number of groups

**DIVIDEND:**  
Inside the castle;  
It's being divided up into parts



$$\begin{array}{r}
 \times 35 \text{ R}1 \quad \checkmark \\
 7 \overline{) 246} \\
 \underline{-21} \quad \downarrow \\
 7 \quad 36 \\
 \underline{-35} \\
 1
 \end{array}$$

$$\begin{array}{r}
 +3 \\
 35 \\
 \times 7 \\
 \hline
 245 \\
 + 1 \\
 \hline
 246
 \end{array}$$



$$\begin{array}{r} 3 \overline{) 319} \\ \underline{3} \phantom{0} \\ 0 \phantom{5} \\ \underline{0} \phantom{5} \\ 0 \phantom{5} \\ \underline{0} \\ 0 \end{array}$$

✓

$$\begin{array}{r} 3 \overline{) 957} \\ \underline{9} \phantom{0} \\ 0 \phantom{5} \\ \underline{0} \phantom{5} \\ 0 \phantom{5} \\ \underline{0} \\ 0 \end{array}$$
$$\begin{array}{r} 3 \overline{) 105} \\ \underline{3} \phantom{0} \\ 0 \phantom{5} \\ \underline{0} \phantom{5} \\ 0 \phantom{5} \\ \underline{0} \\ 0 \end{array}$$
$$\begin{array}{r} 3 \overline{) 27} \\ \underline{3} \phantom{0} \\ 0 \phantom{5} \\ \underline{0} \\ 0 \end{array}$$
$$\begin{array}{r} 3 \overline{) 957} \\ \underline{9} \phantom{0} \\ 0 \phantom{5} \\ \underline{0} \phantom{5} \\ 0 \phantom{5} \\ \underline{0} \\ 0 \end{array}$$

$$\begin{array}{r} 5 \overline{) 82} \text{ R2} \\ \underline{5} \phantom{0} \\ 3 \phantom{2} \\ \underline{3} \phantom{0} \\ 0 \phantom{2} \\ \underline{0} \\ 2 \end{array}$$

✓

$$\begin{array}{r} 3 \overline{) 16} \\ \underline{3} \phantom{0} \\ 0 \phantom{0} \\ \underline{0} \phantom{0} \\ 0 \phantom{0} \\ \underline{0} \\ 0 \end{array}$$
$$\begin{array}{r} 5 \overline{) 80} \\ \underline{5} \phantom{0} \\ 3 \phantom{0} \\ \underline{3} \phantom{0} \\ 0 \phantom{0} \\ \underline{0} \\ 0 \end{array}$$
$$\begin{array}{r} 3 \overline{) 82} \\ \underline{3} \phantom{0} \\ 0 \phantom{0} \\ \underline{0} \phantom{0} \\ 0 \phantom{0} \\ \underline{0} \\ 0 \end{array}$$

$$\begin{array}{r} 7 \overline{) 659} \text{ R1} \\ \underline{7} \phantom{0} \\ 0 \phantom{5} \\ \underline{0} \phantom{5} \\ 0 \phantom{5} \\ \underline{0} \phantom{5} \\ 0 \phantom{5} \\ \underline{0} \\ 1 \end{array}$$

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$$\begin{array}{r} 2 \overline{) 94} \\ \underline{2} \phantom{0} \\ 0 \phantom{0} \\ \underline{0} \phantom{0} \\ 0 \phantom{0} \\ \underline{0} \\ 0 \end{array}$$
$$\begin{array}{r} 7 \overline{) 658} \\ \underline{7} \phantom{0} \\ 0 \phantom{5} \\ \underline{0} \phantom{5} \\ 0 \phantom{5} \\ \underline{0} \phantom{5} \\ 0 \phantom{5} \\ \underline{0} \\ 0 \end{array}$$
$$\begin{array}{r} 2 \overline{) 94} \\ \underline{2} \phantom{0} \\ 0 \phantom{0} \\ \underline{0} \phantom{0} \\ 0 \phantom{0} \\ \underline{0} \\ 0 \end{array}$$