

Division Strategies

$$\begin{array}{r} \text{Quotient} \\ \hline \text{Divisor} \overline{) \text{Dividend}} \end{array}$$

Standard Algorithm for Division:

Divide by place value, from greatest to least.

Steps: **D**oes **M**cDonalds **S**ell **C**heese **B**urgers

D ÷ **D**ivide: About how many divisors in the dividend?

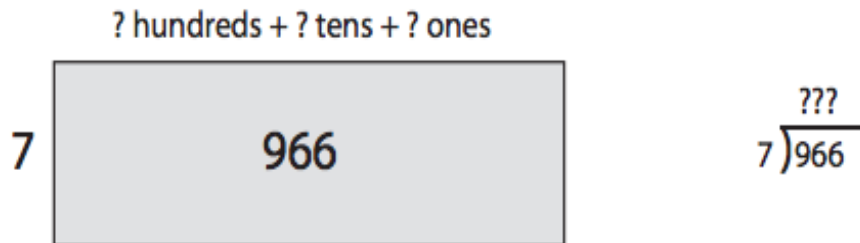
M × **M**ultiply: Quotient x divisor

S - **S**ubtract: To find the new dividend

C **C**heck and compare to the quotient

B **B**egin the steps again until the dividend is too small to divide

Area/Array Model for $966 \div 7$



Thinking: A rectangle has area 966 and one side of length 7. Find the unknown side length. Find hundreds first, then tens, then ones.

Divide: About how many 7s are in 900?

Multiply: $7 \times 100 = 700$

Subtract: $966 - 700$ to find the new dividend - 266

Divide, multiply and subtract again, stacking your quotients

Add your quotients to find your answer

