

PARTIAL QUOTIENTS DIVISION

Reference Chart for 4th Grade Mathematics

$$7 \overline{) 542}$$

$$\begin{array}{r} - 490 \quad 70 \\ \quad 52 \\ - 49 \quad 7 \\ \quad 3 \end{array}$$

(Rem) **77**

How to solve:

1. **Estimate:** How many times does the divisor go into the whole number?
2. **Multiply:** Multiply that estimate by the divisor.
3. **Subtract:** Take that amount away from your total.
4. **Repeat:** Keep going until the remaining number is smaller than your divisor.
5. **Add:** Sum the "partial quotients" on the right side.

FRIENDLY NUMBERS TO TRY

EXAMPLE (DIVISOR: 7)

MENTAL MATH TIP

Multiples of 10

$$7 \times 10 = 70$$

Just add a zero!

Multiples of 100

$$7 \times 100 = 700$$

Good for large dividends.

Half-way (5s)

$$7 \times 5 = 35$$

Easy to calculate mentally.

Doubles (2s)

$$7 \times 2 = 14$$

The simplest starting point.