

Calculations

Year 3

Addition

A5a: Partition Jot

$$\begin{array}{c} 57 + 25 = 82 \\ \begin{array}{c} \text{red} \quad \text{green} \\ \diagdown \quad \diagup \\ \text{green} \quad \text{red} \\ \diagup \quad \diagdown \end{array} \\ 70 + 12 \end{array}$$

A6: Expanded Column

Addition

	H	T	U
	6	8	7
+	2	4	8
			<hr/>
		1	5
	1	2	0
	8	0	0
			<hr/>
	9	3	5
			<hr/>

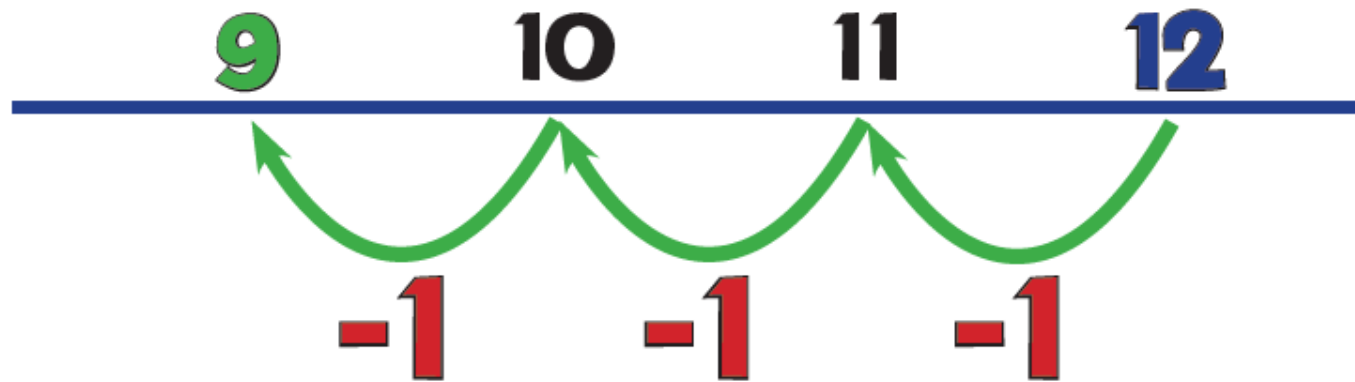
(A7: Column Addition)

Additional

$$\begin{array}{r} \text{T} \quad \text{U} \\ 43 \\ + 24 \\ \hline 67 \\ \hline \end{array}$$

Subtraction

S3: Counting Back



$$12 - 3 = 9$$

"What do I get if I take 3 away from 12? Answer: 9"



Expanded

Multiplication

M5: Grid Method

Short Multiplication

$$15 \times 5 = 75$$

x	10	5
5	50	25

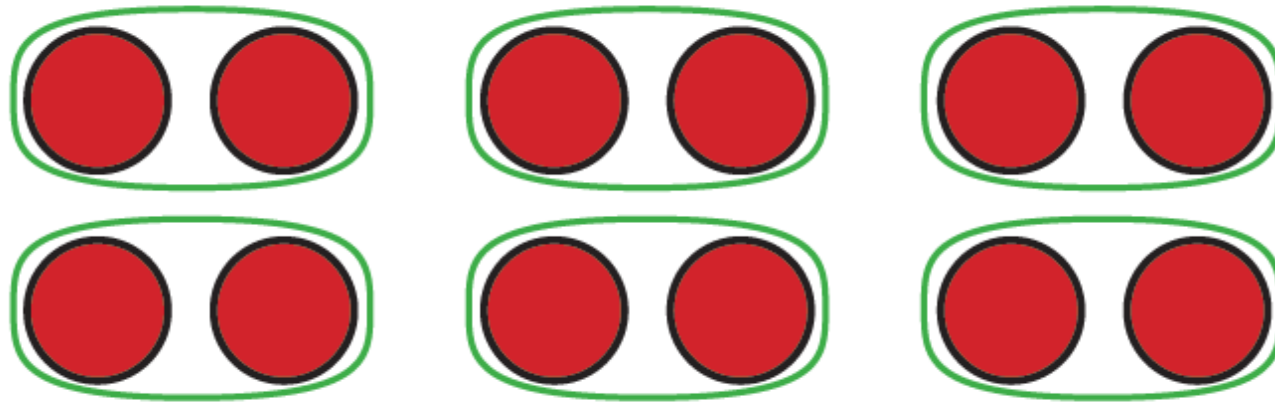
$$50 + 25 = 75$$

Division

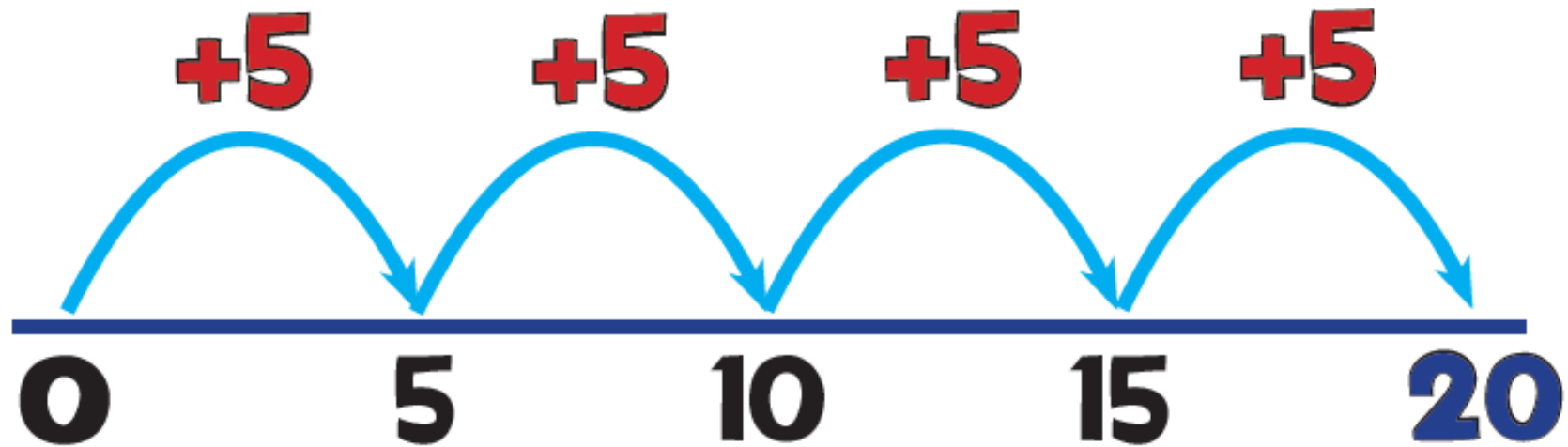
D4: Division as Grouping

$$12 \div 2 = 6$$

"How many groups of 2
can I fit in 12?"
Answer: 6



D5: Grouping on a Number Line

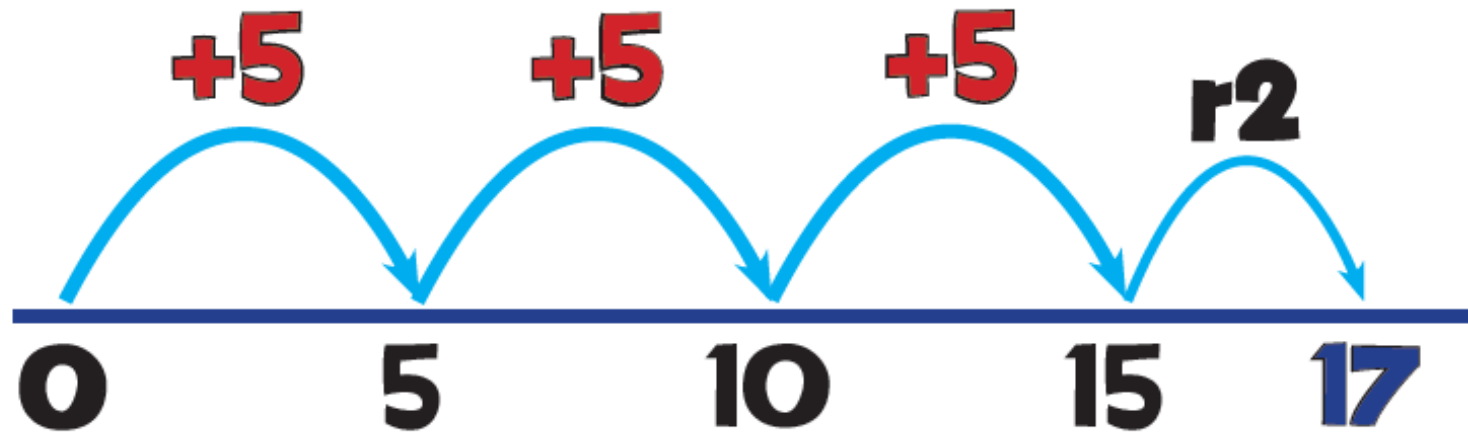


$$20 \div 5 = 4$$

"How many 5s in 20?"
Answer: 4

D5a: Grouping on a Number Line

Remainders



$$17 \div 5 = 3r2$$

"How many 5s in 17?"
Answer: 3 remainder 2