

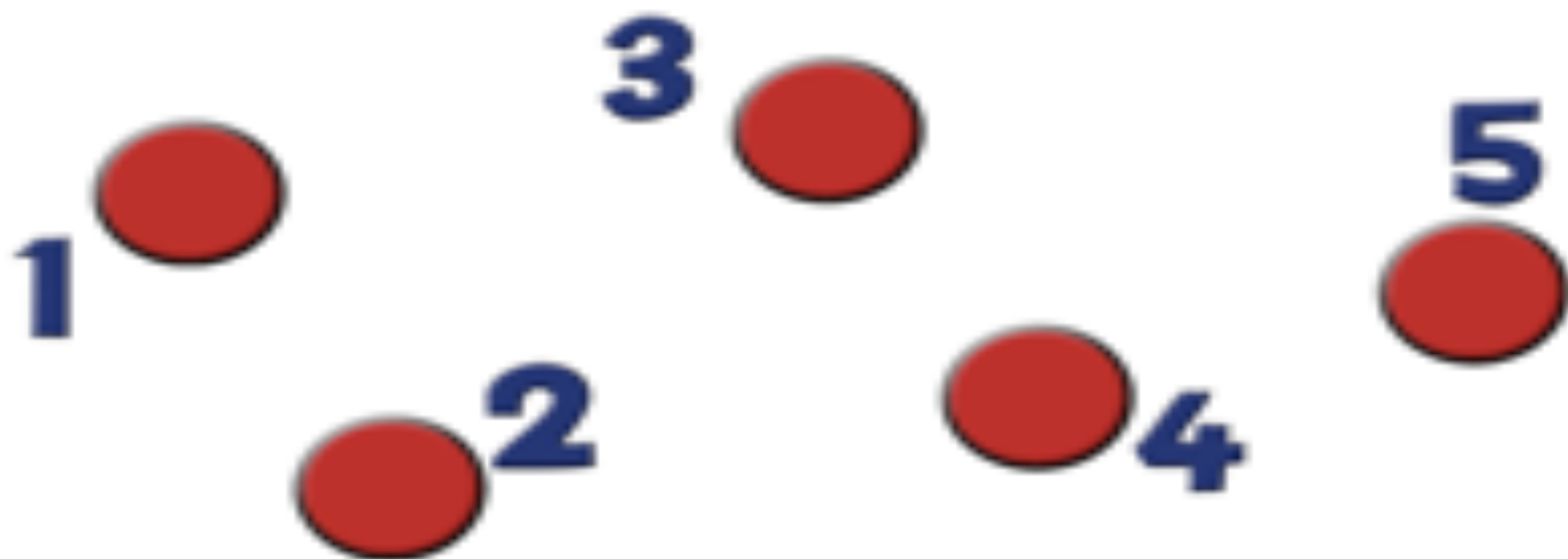
Year 1

Visual calculation
methods

Counting

C2a: Number Match

One to One Correspondence



Each object to be counted must be touched or 'included' exactly once as the numbers are said.



St Mary Magdalene CE Primary School

St Mary Magdalene CE Primary School 2022 © Diocese of Northampton
2022-2023 Year 1 Unit 1: Numbers 1-5



C5: Counting Forwards



C6: Counting On



Mental Addition

MA3: Number Bonds

6

Learn Bonds

| | | | | |
|----|------------|------------|------------|---|
| 0 | + | ●●●●●●●●●● | 10 | |
| 1 | ● | + | ●●●●●●●●●● | 9 |
| 2 | ●● | + | ●●●●●●●●●● | 8 |
| 3 | ●●● | + | ●●●●●●●●●● | 7 |
| 4 | ●●●● | + | ●●●●●●●●●● | 6 |
| 5 | ●●●●● | + | ●●●●●●●●●● | 5 |
| 6 | ●●●●●● | + | ●●●●●●●●●● | 4 |
| 7 | ●●●●●●● | + | ●●●●●●●●●● | 3 |
| 8 | ●●●●●●●● | + | ●●●●●●●●●● | 2 |
| 9 | ●●●●●●●●● | + | ●●●●●●●●●● | 1 |
| 10 | ●●●●●●●●●● | + | ●●●●●●●●●● | 0 |

| | | | | |
|----|---|----|---|----|
| 0 | + | 10 | = | 10 |
| 1 | + | 9 | = | 10 |
| 2 | + | 8 | = | 10 |
| 3 | + | 7 | = | 10 |
| 4 | + | 6 | = | 10 |
| 5 | + | 5 | = | 10 |
| 6 | + | 4 | = | 10 |
| 7 | + | 3 | = | 10 |
| 8 | + | 2 | = | 10 |
| 9 | + | 1 | = | 10 |
| 10 | + | 0 | = | 10 |



MA4: Double & Adjust

$$5 + 6 = 11$$

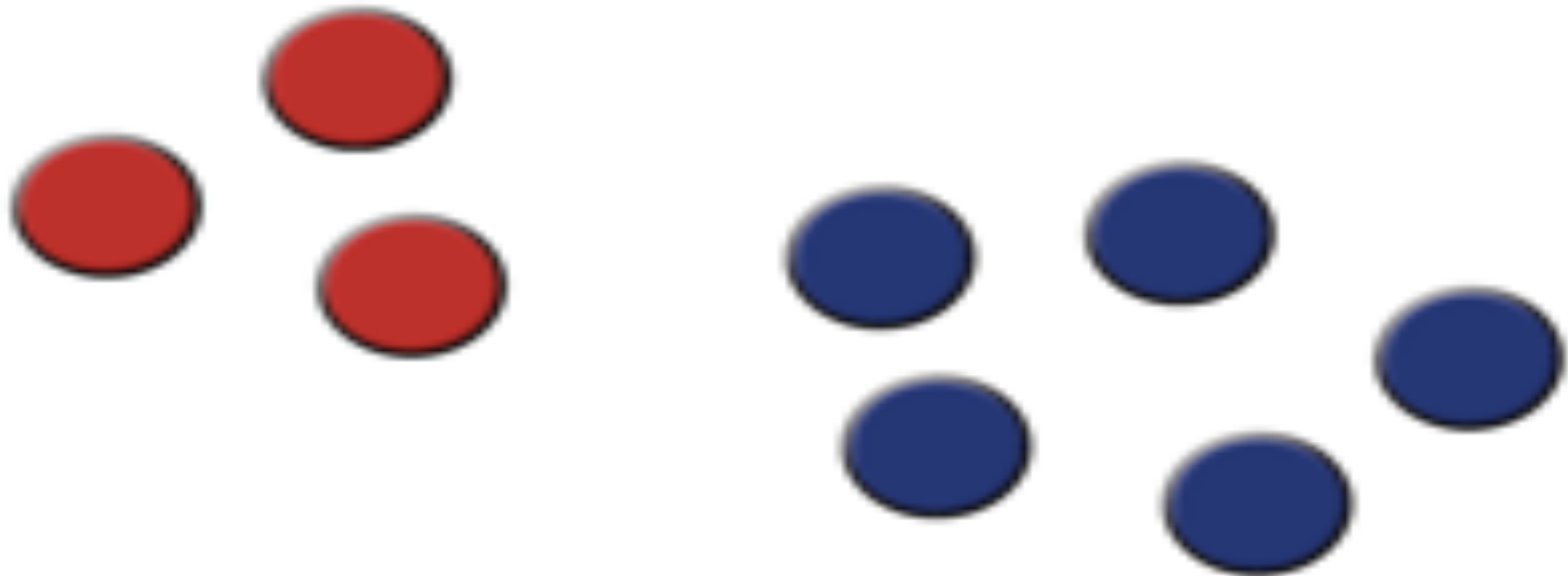
$$5 + 5 + 1$$

$$10 + 1 = 11$$



Addition

A1: Objects & Pictures



"If I have 3 and then 5 more, how many altogether? Answer: 8"



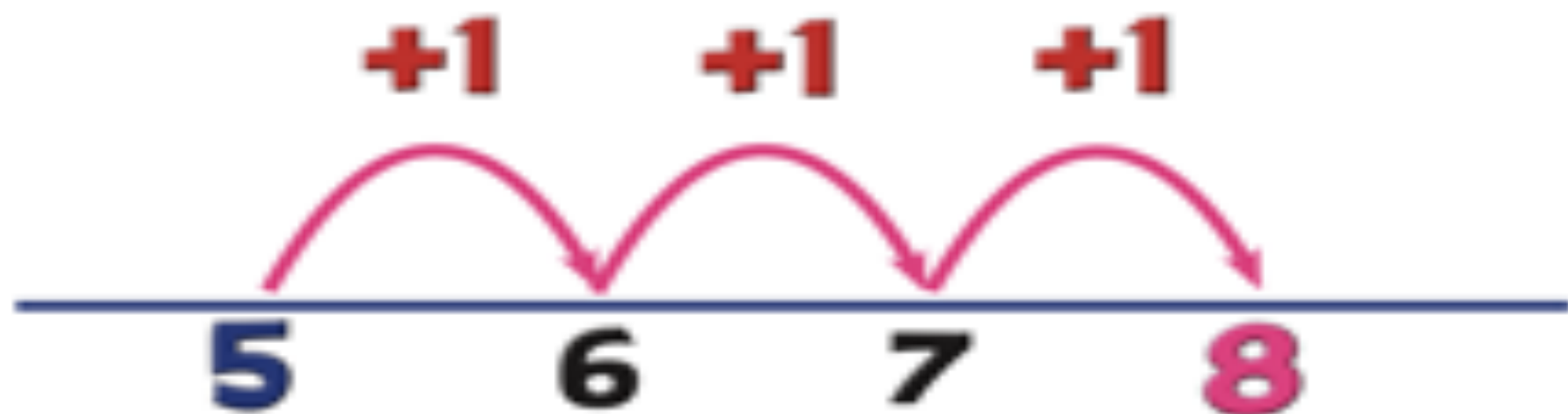
A1a: Largest Number 1st



$$5 + 3 = 8$$



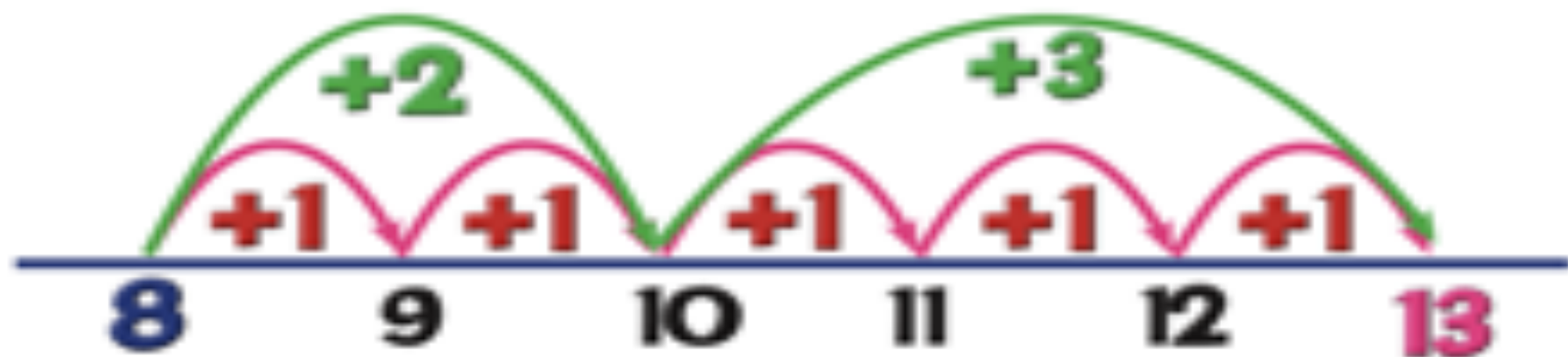
A2: Counting On



$$5 + 3 = 8$$



A2a: Counting On Bridging 10



$$8 + 5 = 13$$



Mental Subtraction

MS2: Counting On

$$75 - 47 = 28$$



MS3: Round & Adjust

$$84 - 29 = 55$$

$$84 - 30 + 1$$

$$54 + 1 = 55$$



Subtraction

S1: Objects

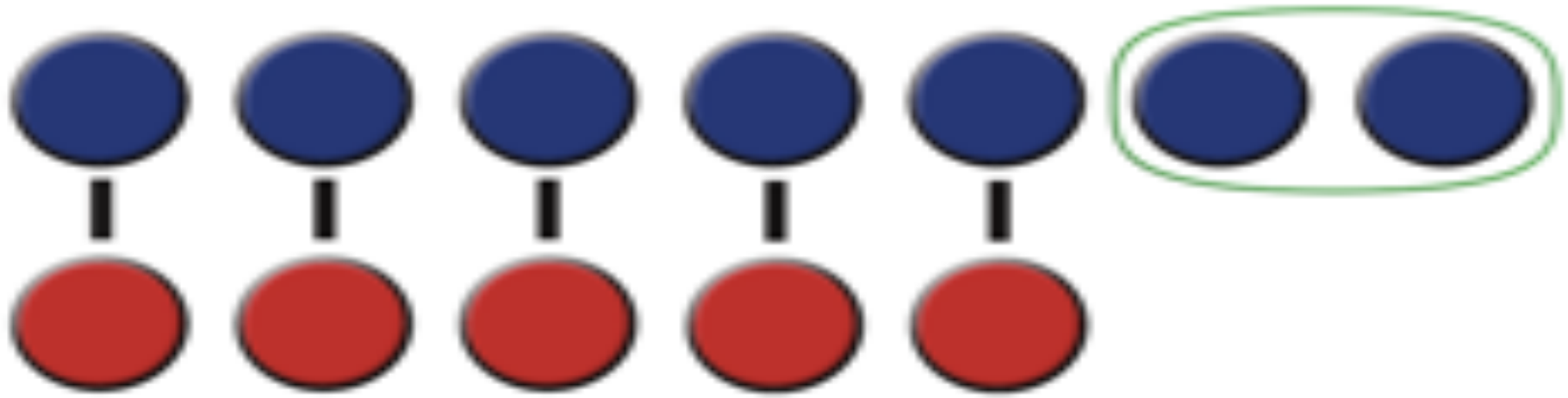


$$7 - 3 = 4$$

"What do I get if I take 3 away from 7? Answer: 4"



S2: What's the Difference?



$$7 - 5 = 2$$

"How many more is 7 than 5? What is the difference?"



S4: Counting On

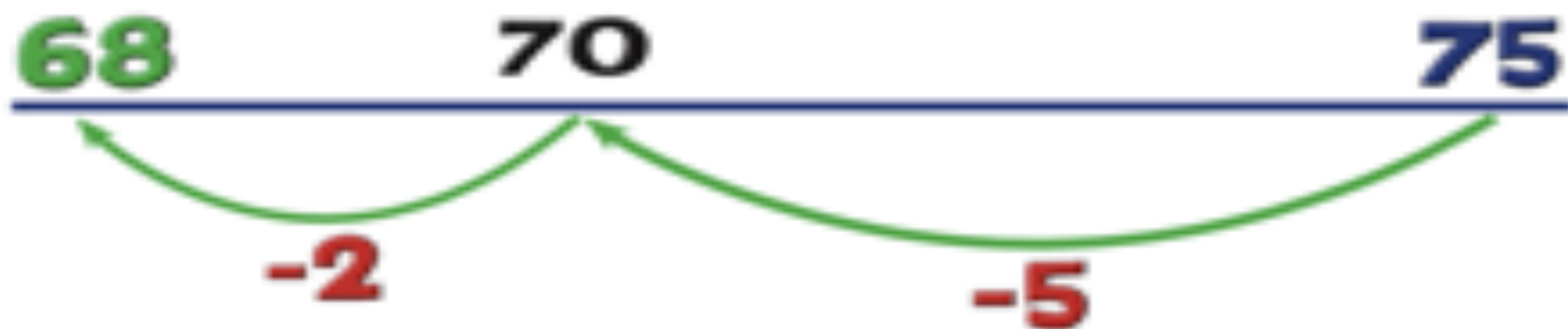


$$12 - 9 = 3$$

"How many more is 12 than 9? What is the difference?"



S5: Backwards Boing

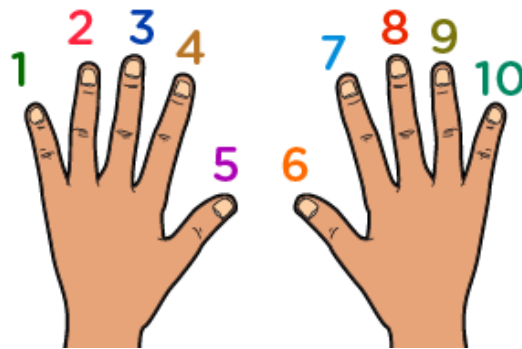


$$75 - 7 = 68$$



Mental Multiplication

Count in 2,
5 and 10



Multiplication

(M1: Groups)



"2 groups of 5 counters makes 10 counters altogether"



M1: Repeated Addition

(Groups)



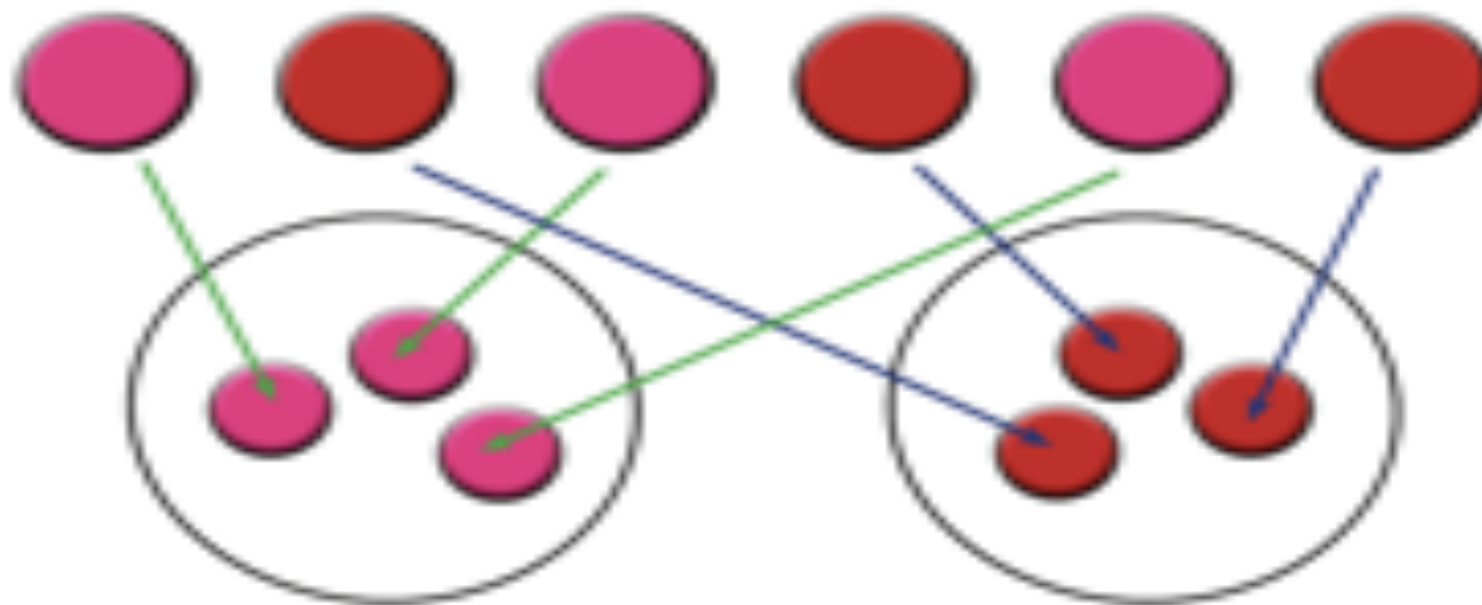
$$5 \times 3 = 5 + 5 + 5 = 15$$

"5 multiplied by 3" means "5, 3 times", which gives "3 lots of 5"!



Division

D1: Sharing (Concept)



"If I share **6** into **2** equal amounts,
how many in each group?" Answer: **3**



D2: Grouping (Concept)



"How many groups of 2 can I make out of 6?"

Answer: 3

