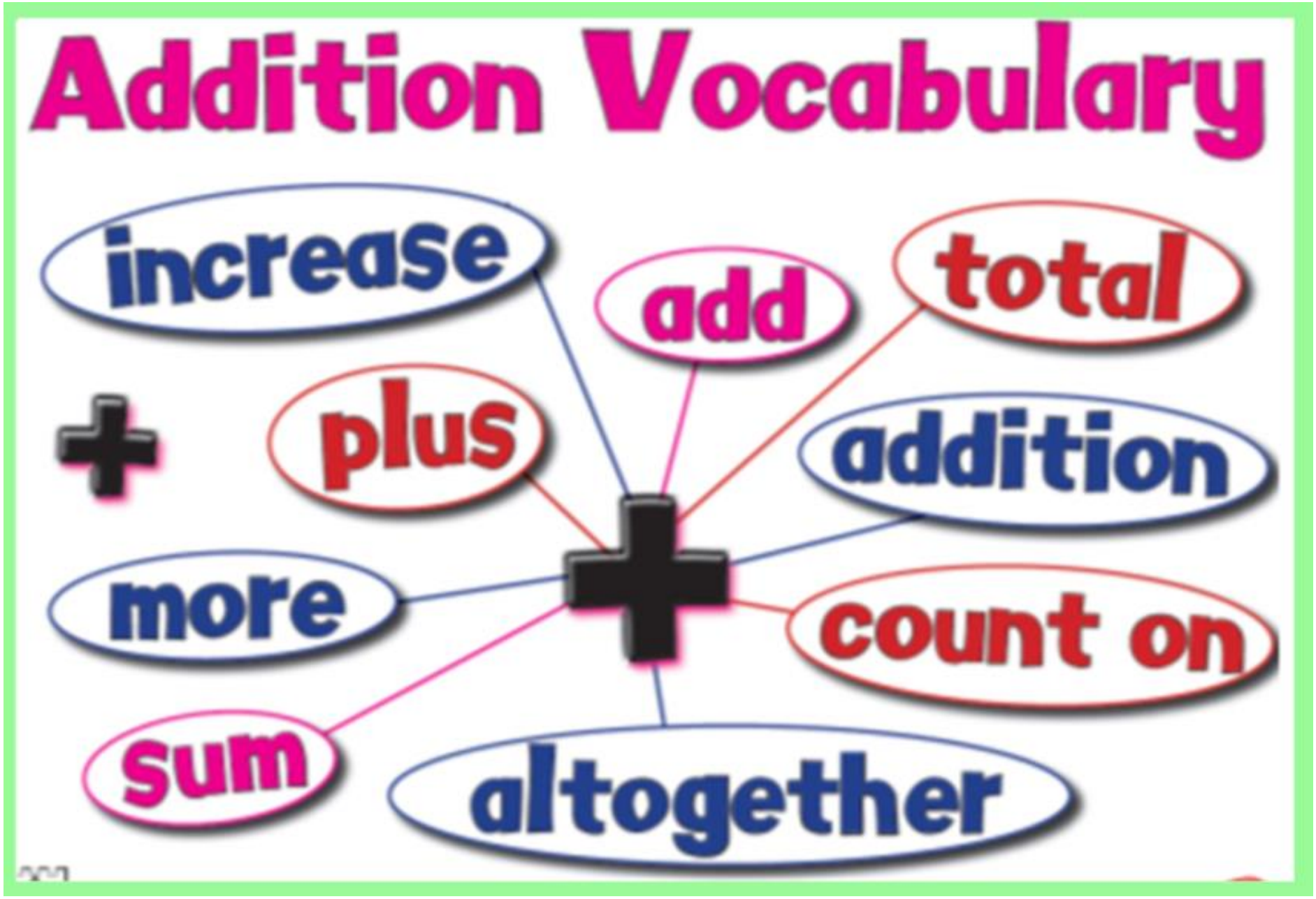
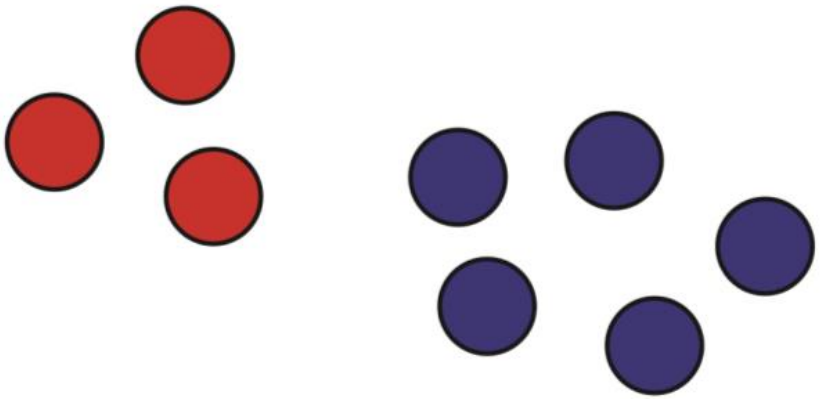
Fir Tree

Calculation Strategies

Year 1 and 2

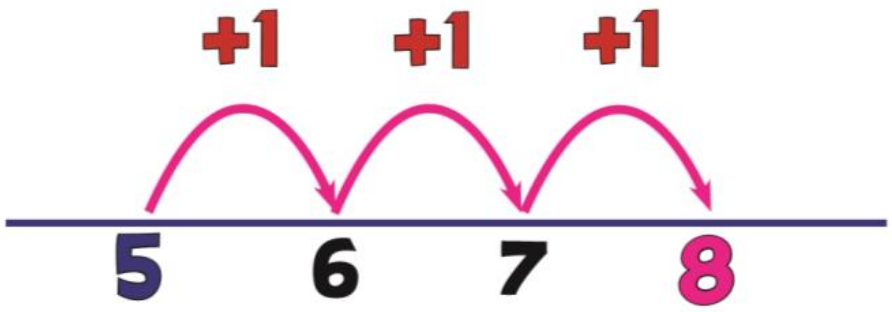

Addition Vocabulary
increase
add
total
+
plus
addition
more
count on
sum
altogether

A1: Objects & Pictures



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

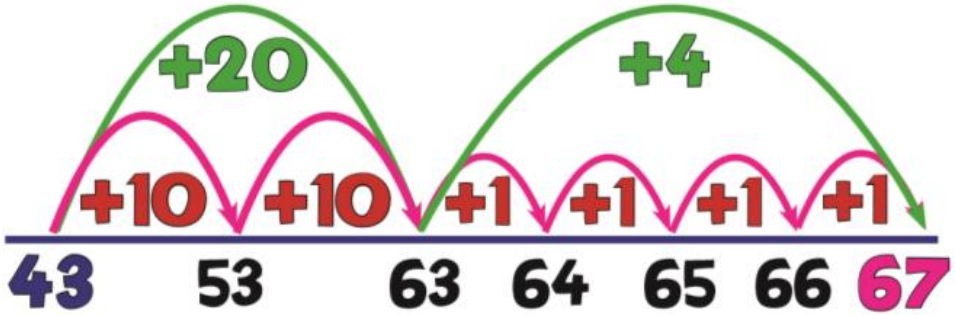
A2: Counting On



5 + 3 = 8

A3: Forwards Jump

43 + 24 = 67



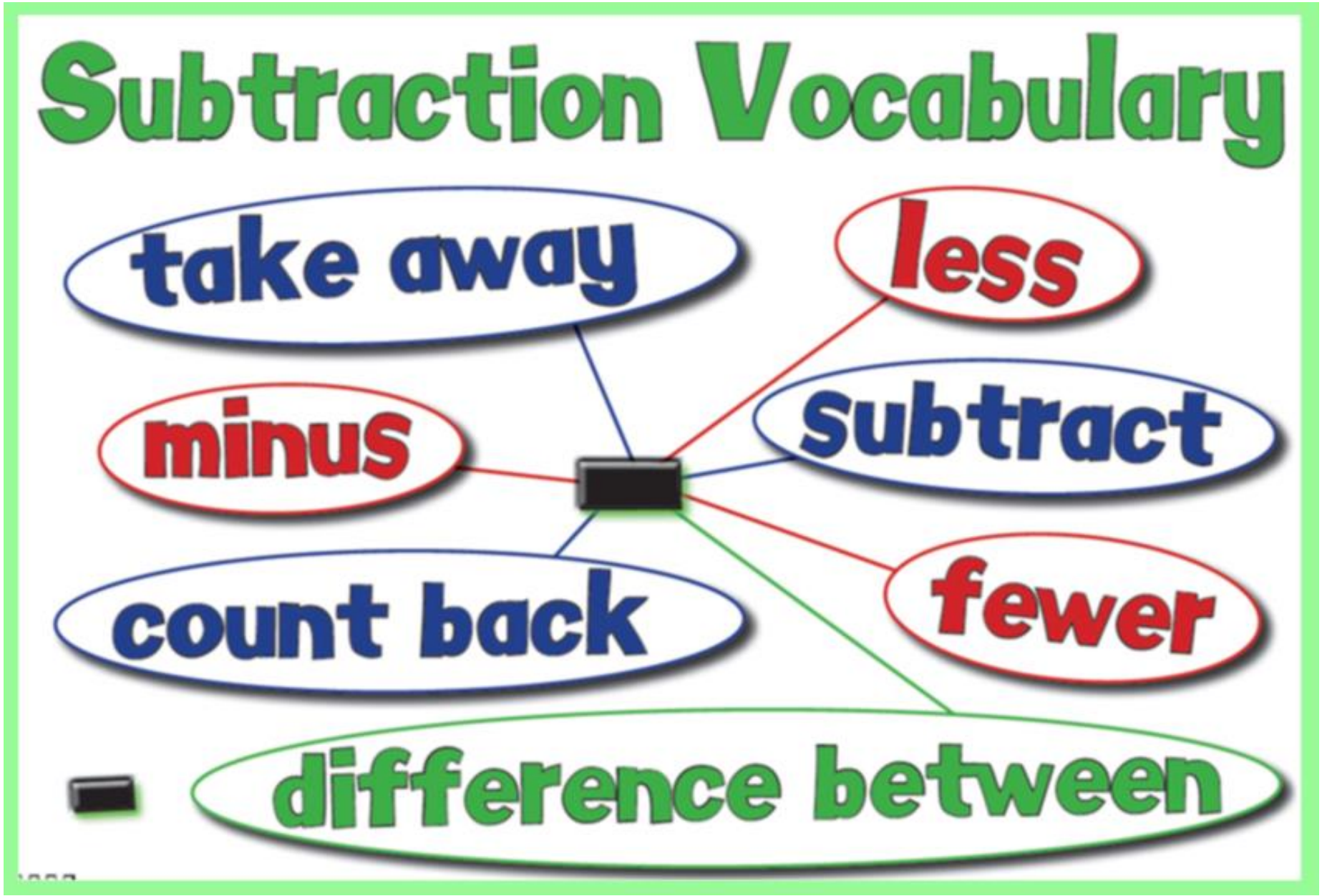
A4: Partitioning

43 + 24 = 67

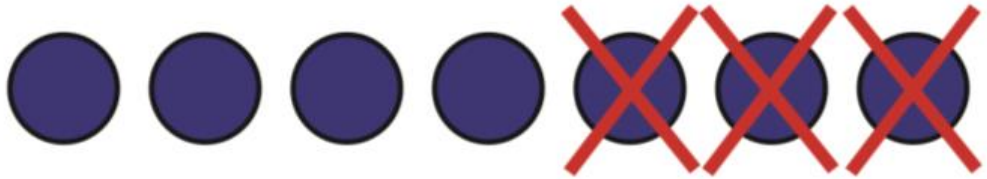
40 + 20 = 60

3 + 4 = 7

67

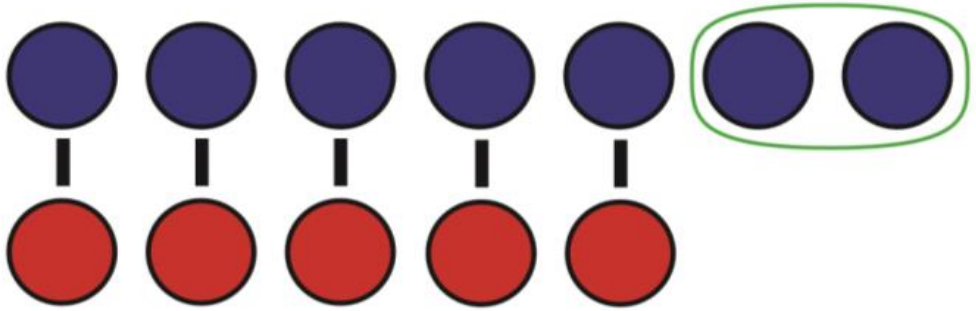

Subtraction Vocabulary
take away
less
minus
subtract
count back
fewer
difference between

S1: Objects



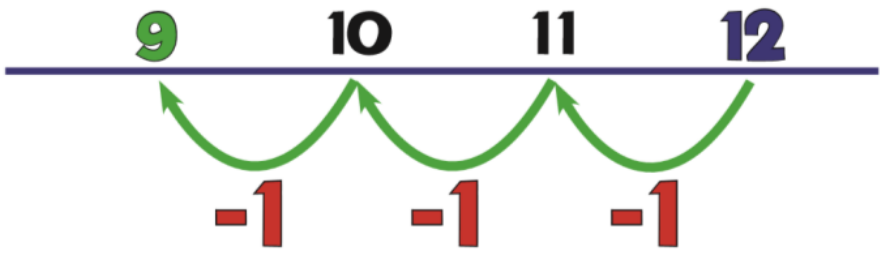
7 - 3 = 4

S2: What's the Difference?



7 - 5 = 2

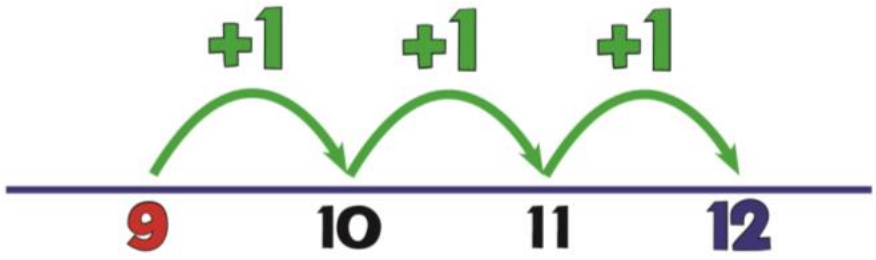
S3: Counting Back



12 - 3 = 9

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

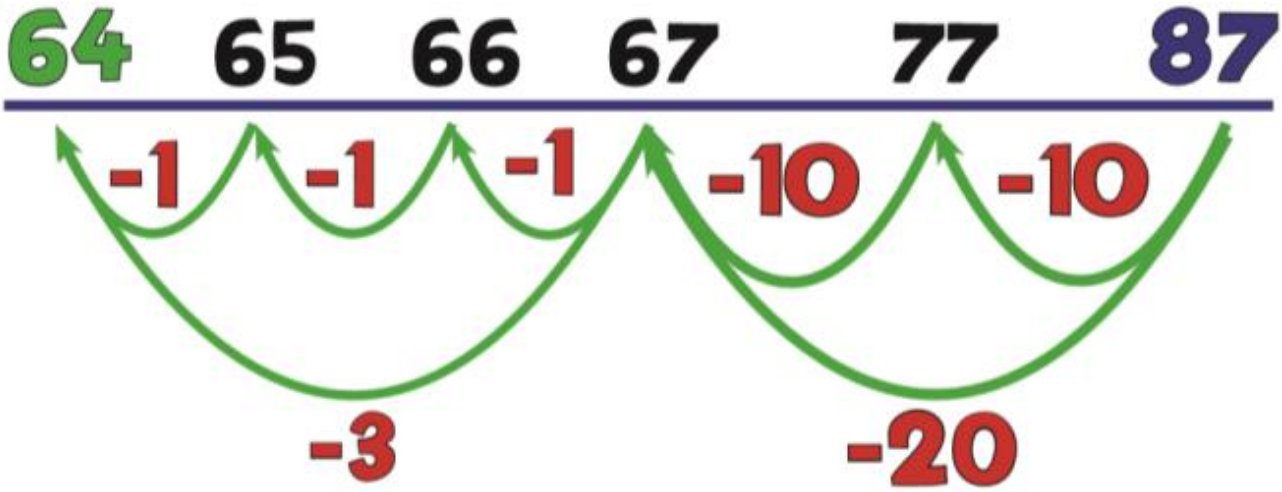
S4: Counting On



12 - 9 = 3

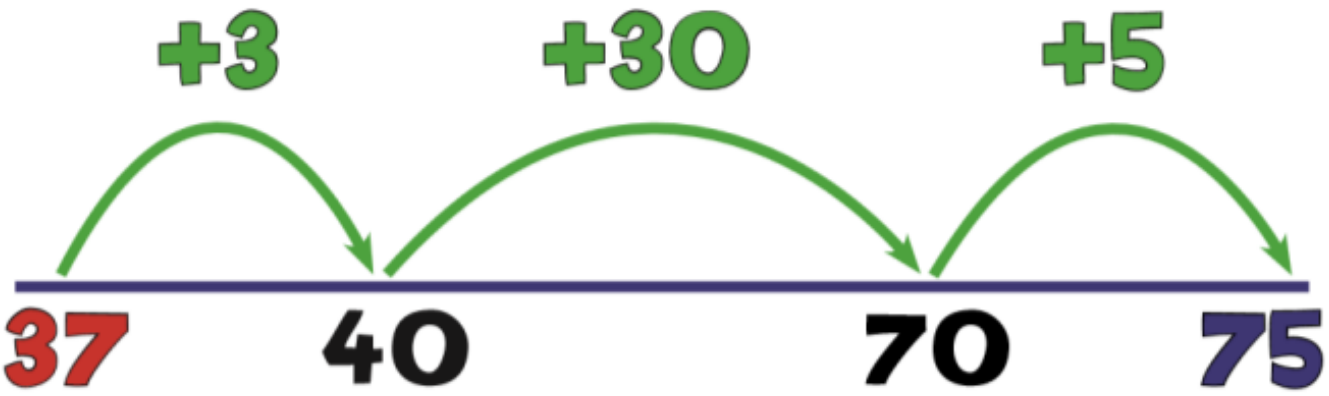
"How many more is 12 than 9? What is the difference?"

S5: Backwards Bounce

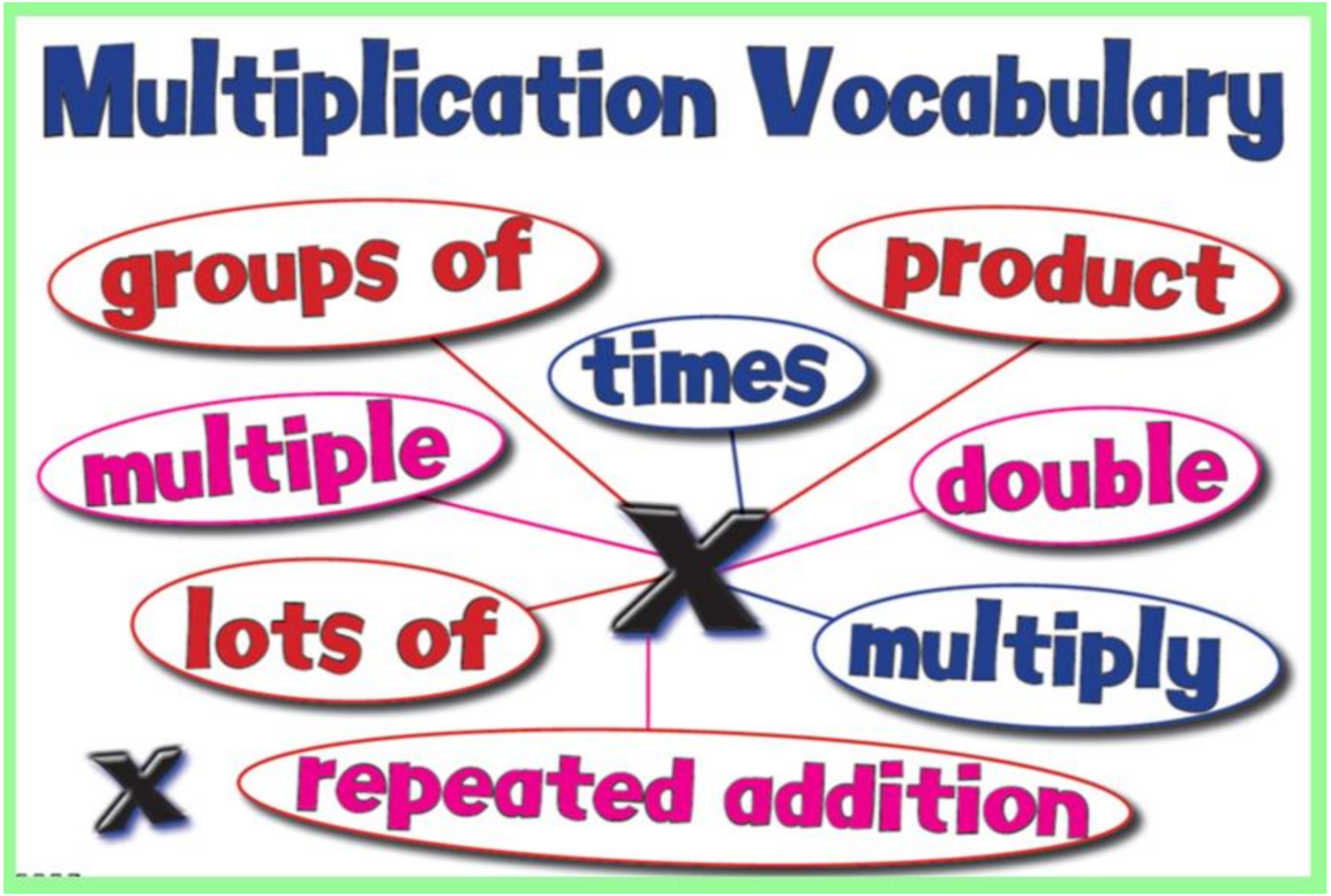


87 - 23 = 64

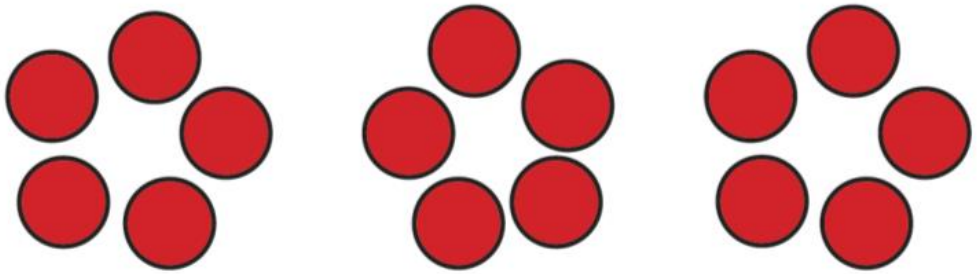
S6: Forwards Bounce



75 - 37 = 38


Multiplication Vocabulary
groups of
product
times
multiple
double
lots of
multiply
repeated addition

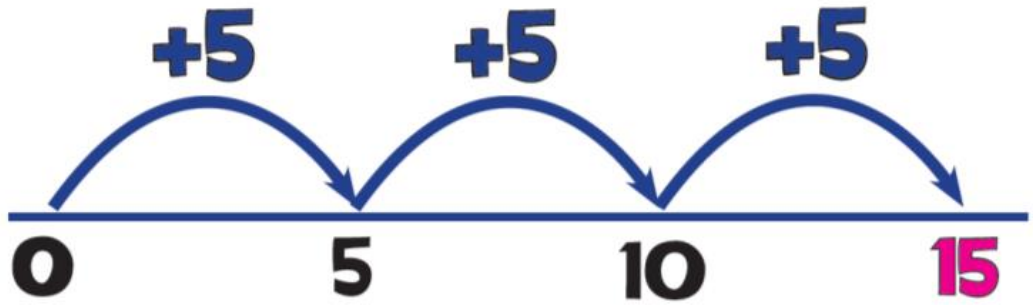
M1: Repeated Addition
(Groups)



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

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

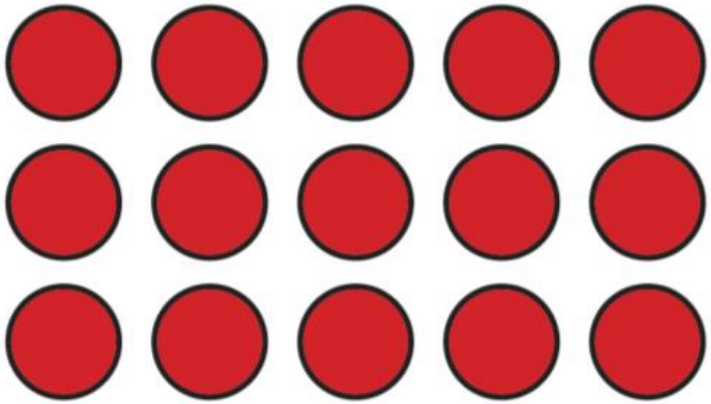
M2: Repeated Addition
(Number Line)



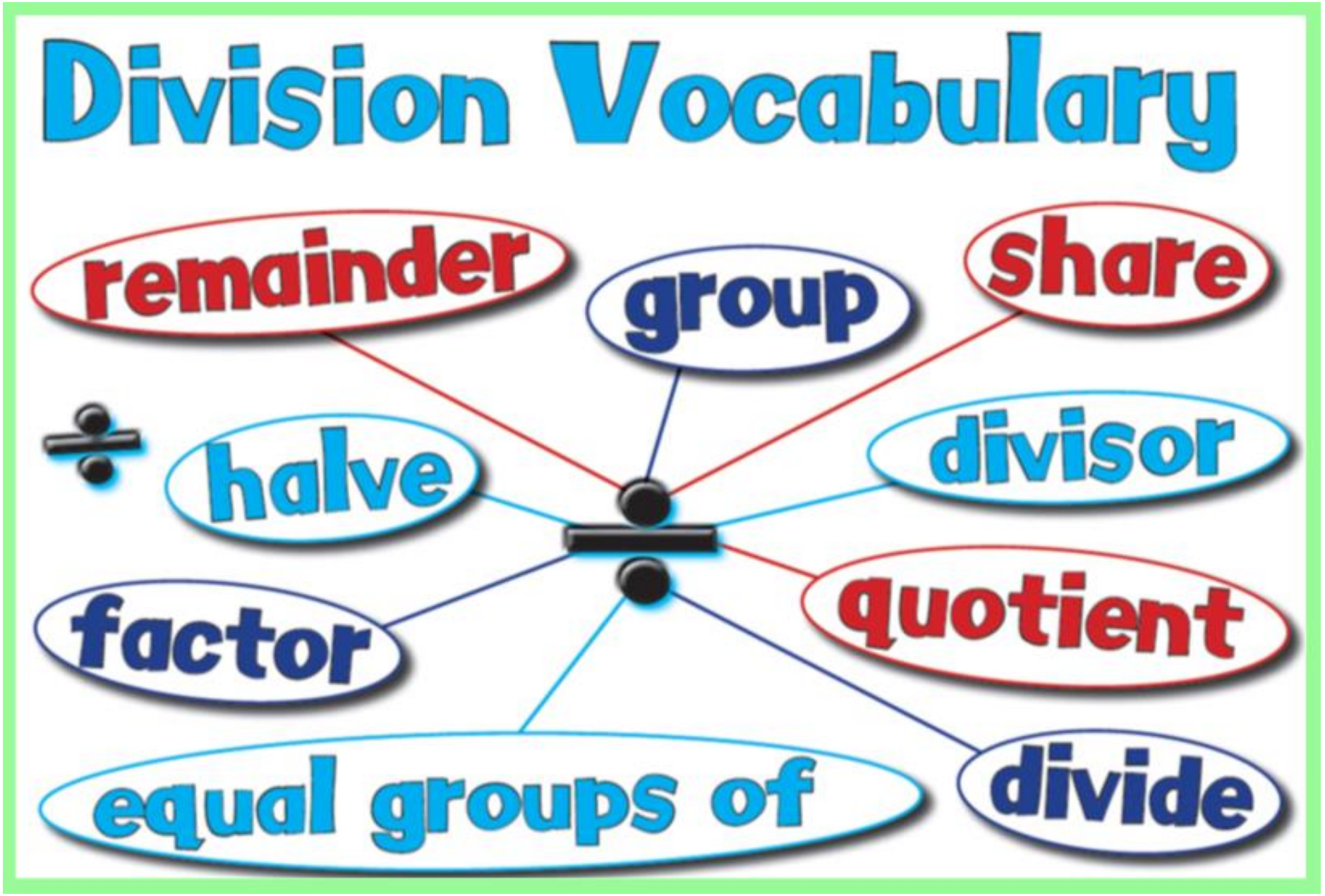
$5 \times 3 = 5 + 5 + 5 = 15$

"5 times 3" means "5, 3 times!"

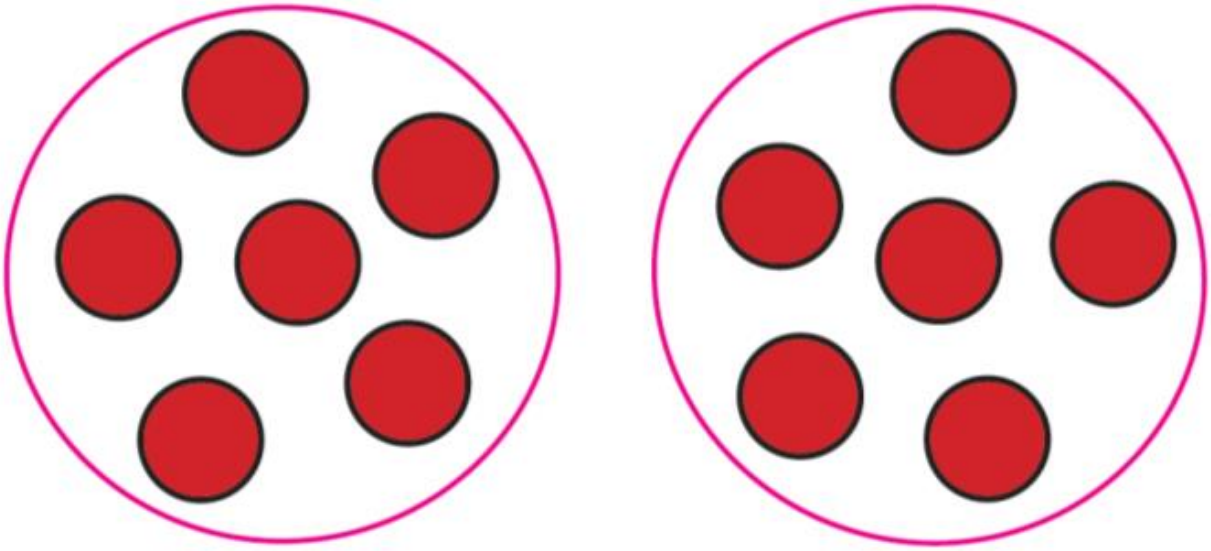
M3: Arrays



$3 \times 5 = 15$ or $5 \times 3 = 15$


Division Vocabulary
remainder
group
share
÷
halve
divisor
factor
quotient
equal groups of
divide

D1: Sharing



12 ÷ 2 = 6

"If I share 12 into 2 equal amounts, how many in each group?" Answer: 6

D2: Division as Grouping

12 ÷ 2 = 6

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