

Year 5

Year 6

**2997 + 6**  
Bridging boundaries

**3754 + 600**  
Add multiples of ten and a hundred

**3452 + 1999**  
Round then adjust

Stop and Look!  
What do you notice?  
What's the most efficient way?

Add 2000 then subtract 1

If I know  $7 + 6 = 13$  then...

Total difference ones tens hundreds thousands

**63,452 + 19,991**  
Round then adjust

**2,452 - 0,999**  
Round then adjust

**40,007 - 91,998**  
Find the difference between two numbers

Written methods

Add 20,000 then subtract 1

Take away 1 then add 1 thousandth

Count on 8 from 19,998 to 40,000, then 7 more so the difference between them is 52

Count on 8 from 19,998 to 40,000, then 7 more so the difference between them is 52

**3543 + 2312**  
No regrouping

**3544 + 2318**  
Regrouping the ones

**3544 + 2658**  
Regrouping in multiple columns

Regroup exchange ones tens hundreds thousands

Regroup the 12 ones into 1 ten and 2 ones

If the column sum is equal to ten or more, we must regroup.

**150 + 80**  
Bridging boundaries

**325 + 200**  
Add multiples of ten and a hundred

**234 + 199**  
Round then adjust

If I know  $3 + 2 = 5$  then I know 3 hundreds + 2 hundreds = 5 hundreds

Add 200 then subtract 1

Year 4

Year 3

**348 + 224**  
Regrouping the ones

**388 + 264**  
Regroup in multiple columns

**76 + 388**  
Different numbers of digits

Regroup the 12 ones into 1 ten and 2 ones

Regroup exchange ones tens hundreds

In my head? With jottings? Formal written method?

**35 + 20**  
Add multiples of ten

If I know  $3 + 2$  then I also know

**37 + 19**  
Round then adjust

Add 20 then subtract 1

**35 + 23**  
Partition and recombine

$35 + 23$   
 $30 + 5 + 20 + 3$   
 $50 + 8 = 58$

add each part plus total

$35 + 23 = 23 + 35$   
Addition is commutative

Year 2

# Addition

Year 1

$5 = 5 + 0$     $5 - 0 = 5$   
 $5 = 4 + 1$     $5 - 1 = 4$   
 $5 = 3 + 2$     $5 - 2 = 3$   
 $5 = 2 + 3$     $5 - 3 = 2$   
 $5 = 1 + 4$     $5 - 4 = 1$   
 $5 = 0 + 5$     $5 - 5 = 0$

$6 = 6 + 0$     $6 - 0 = 6$   
 $6 = 5 + 1$     $6 - 1 = 5$   
 $6 = 4 + 2$     $6 - 2 = 4$   
 $6 = 3 + 3$     $6 - 3 = 3$   
 $6 = 2 + 4$     $6 - 4 = 2$   
 $6 = 1 + 5$     $6 - 5 = 1$   
 $6 = 0 + 6$     $6 - 6 = 0$

5 is the whole  
2 is a part  
3 is a part

add total subtract left

$7 = 7 + 0$     $7 - 0 = 7$   
 $7 = 6 + 1$     $7 - 1 = 6$   
 $7 = 5 + 2$     $7 - 2 = 5$   
 $7 = 4 + 3$     $7 - 3 = 4$   
 $7 = 3 + 4$     $7 - 4 = 3$   
 $7 = 2 + 5$     $7 - 5 = 2$   
 $7 = 1 + 6$     $7 - 6 = 1$   
 $7 = 0 + 7$     $7 - 7 = 0$

8 is the whole  
2 is a part  
6 is a part

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

10 is one part  
6 is one part  
4 is the whole

12 is one part  
7 is one part  
5 is the whole

15 is one part  
7 is one part  
8 is one part  
15 is the whole

$17 = 17 + 0$     $17 - 0 = 17$   
 $17 = 16 + 1$     $17 - 1 = 16$   
 $17 = 15 + 2$     $17 - 2 = 15$   
 $17 = 14 + 3$     $17 - 3 = 14$   
 $17 = 13 + 4$     $17 - 4 = 13$   
 $17 = 12 + 5$     $17 - 5 = 12$   
 $17 = 11 + 6$     $17 - 6 = 11$   
 $17 = 10 + 7$     $17 - 7 = 10$   
 $17 = 9 + 8$     $17 - 8 = 9$   
 $17 = 8 + 9$     $17 - 9 = 8$   
 $17 = 7 + 10$     $17 - 10 = 7$   
 $17 = 6 + 11$     $17 - 11 = 6$   
 $17 = 5 + 12$     $17 - 12 = 5$   
 $17 = 4 + 13$     $17 - 13 = 4$   
 $17 = 3 + 14$     $17 - 14 = 3$   
 $17 = 2 + 15$     $17 - 15 = 2$   
 $17 = 1 + 16$     $17 - 16 = 1$   
 $17 = 0 + 17$     $17 - 17 = 0$

5 is one part  
13 is one part  
18 is the whole

12 is one part  
8 is one part  
20 is the whole

If I know  $5 + 4 = 9$  then I also know  $15 + 4 = 19$

Age 10

I just know it

$4 + 10 = 14$   
 $4 + 10 = 14$   
 $4 + 10 = 14$

$4 + 9 = 13$   
 $4 + 9 = 13$   
 $4 + 9 = 13$

