

### Addition Number Talks: Grade 1

#### **Doubles/Near Doubles**

6 + 6      12 + 12  
6 + 7      12 + 13  
7 + 7      15 + 15  
7 + 8      15 + 16  
8 + 8      19 + 18  
8 + 9      19 + 19

#### **Making Tens**

9 + 1                      5 + 5  
9 + 3 + 1                5 + 5 + 4  
9 + 5 + 1                5 + 3 + 5  
3 + 7                      4 + 6  
7 + 5 + 3                4 + 6 + 4  
3 + 6 + 7                6 + 5 + 4

### Addition Number Talks: Grade 2

#### **Doubles/Near-Doubles**

11 + 11      19 + 19  
12 + 12      20 + 20  
11 + 12      19 + 18  
11 + 10      19 + 20  
16 + 16      15 + 15  
17 + 17      15 + 17  
16 + 15      15 + 13  
16 + 17      15 + 16

#### **Making Tens**

4 + 6 + 8 + 2            5 + 3 + 5 + 4 + 7  
9 + 3 + 1 + 7            9 + 5 + 8 + 2 + 1  
5 + 6 + 5 + 4            4 + 5 + 6 + 3 + 7  
3 + 9 + 7 + 1            3 + 8 + 5 + 5 + 2  
2 + 9 + 8 + 1            9 + 1 + 6 + 3 + 4  
6 + 4 + 3 + 7            7 + 4 + 3 + 2 + 8  
5 + 7 + 3 + 5            2 + 6 + 8 + 3 + 4  
2 + 5 + 5 + 8            9 + 3 + 1 + 5 + 5

### Addition Number Talks: Grades 3-5

#### **Doubles/Near Doubles:**

16 + 17                      28 + 27                      98 + 99                      198 + 199  
18 + 19                      36 + 37                      124 + 126                      249 + 248  
15 + 18                      49 + 52                      126 + 127                      298 + 297  
15 + 16                      25 + 28                      124 + 128                      398 + 399  
19 + 18                      38 + 37                      148 + 149                      498 + 497

#### **Breaking Each Number into Its Place Value:**

28 + 11                      25 + 35                      365 + 247                      146 + 277  
14 + 35                      16 + 27                      138 + 292                      216 + 188  
36 + 22                      37 + 18                      168 + 254                      255 + 267  
27 + 15                      35 + 26                      292 + 139                      185 + 146  
17 + 33                      25 + 38                      518 + 265                      370 + 267

#### **Adding Up in Chunks:**

16 + 10                      38 + 26                      156 + 40                      218 + 450  
16 + 42                      38 + 33                      156 + 43                      218 + 456  
26 + 30                      45 + 38                      237 + 48                      247 + 174  
24 + 30                      45 + 46                      256 + 340                      345 + 450  
24 + 55                      65 + 36                      256 + 342                      345 + 457

**Subtraction**

**Counting Back**

**Question:** 8-3

**Sample Solution:**

For counting back students would start at 8 and count backward 3 until they arrived at 5.

8...7, 6, 5

**Removal in Parts**

**Question:** 45 - 23

**Sample Solution:**

**Constant Difference**

**Question:** 57-22

**Sample Solution:**

Add 3 to each number and the difference remains the same. Only the numbers become friendlier to work with.

57 - 22  
 $\begin{array}{r} +3 \\ +3 \\ \hline 60 - 25 \end{array}$  (add 3 to each # keeps difference the same)

60-25=35

**Adding Up to find the Difference**

**Question:** 82-48

**Sample Solution:** 82-48

$48 + (10 + 10 + 10 + 4) = 82$

Student adds up from 48 to 82 to find the difference of 34.

**Part Whole Box Model**

**Question:** 57-22

**Sample Solution:**

Whole 57	
Part 22	Part 35

Students understand the whole and one part of the whole. Because of this, the student is able to identify the other missing part of the whole.

**Adjusting 1 Number To Create An Easier Number**

**Question:** 39 - 24

**Sample Solution:**

Adding one to 39 to make it a 40

$(39 (+1)) + 24$   
 $(40) - 24 = 16$   
 $16 (-1) = 15$

Added 1 to 39 so 1 was removed from the sum

**Using a Number Line**

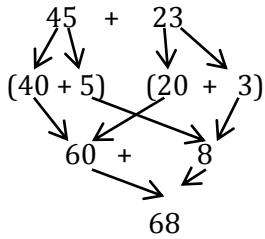
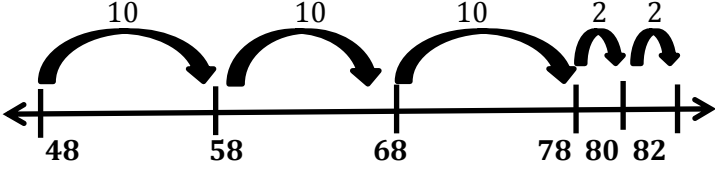
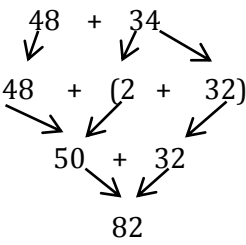
**Question:** 82-48

**Sample Solution:** 82-48

Student adds up from 48 to 82 to find the difference

\*\*\*These strategies should be discovered, explored, and modeled by the students\*\*\*

Addition

<p><b>Counting All/Counting On</b></p> <p><b>Question:</b> 8+3</p> <p><b>Sample Solution:</b></p> <p>For counting all the students would combine 8 and 3 by counting the set (1,2,3,4,5,6,7,8...9,10,11)</p> <p>For counting on the student could say "8...9,10,11"</p>	<p><b>Breaking Up Into Place Value</b></p> <p><b>Question:</b> 45 + 23</p> <p><b>Sample Solution:</b></p> 
<p><b>Making Tens</b></p> <p><b>Question:</b> 9+4</p> <p><b>Sample Solution:</b></p> <p>Student could say "I decomposed the 4 (3 and 1) and gave one to the 9 to make a ten and added the remaining 3."</p> $9+4 = 10+3$	<p><b>Adding Up In Chunks</b></p> <p><b>Question:</b> 48+34</p> <p><b>Sample Solution:</b> 48+34</p> $48 + (10 + 10 + 10 + 4)$ 
<p><b>Doubles/Near Doubles</b></p> <p><b>Question:</b> 8+7 (when students use their double facts to solve related problems)</p> <p><b>Sample Solution:</b></p> $8+7 = 7+7+1$ $8+7 = 8+8-1$	<p><b>Compensation</b></p> <p><b>Question:</b> 49 + 57</p> <p><b>Sample Solution:</b></p> $39 + 57$ $\begin{array}{r} +1 \quad -1 \\ 40 + 56 = 96 \end{array}$ <p>Compensation: removing one quantity from one addend and adding it to the other addend. Although quantities are manipulated the total sum remains the same.</p>
<p><b>Landmark/Friendly Numbers</b></p> <p><b>Question:</b> 48+34</p> <p><b>Sample Solution:</b></p> 	<p><b>Adjusting 1 Number To Create An Easier Number</b></p> <p><b>Question:</b> 39 + 24</p> <p><b>Sample Solution:</b></p> <p>Adding one to 39 to make it a 40</p> $(39 (+1)) + 24$ $(40) + 24$ $64 (-1) = 63$ <p>Added 1 to 39 so 1 was removed from the sum</p>

\*\*\*These strategies should be discovered, explored, and modeled by the students\*\*\*