

Maths Knowledge Organiser (Autumn 1)

Key Vocabulary

place value - the value of all the digits in a number. For example, in the number 62, the digit '2' is worth 2 and the digit '6' is worth 60

partition - when you split a number into parts

addition - finding the total value of two or more numbers. We use the symbol '+'

sum - the result of adding numbers together

ordering - putting numbers in the correct order according to size. Ordering also involves using the greater than, less than and equals symbols (<, > and =)

subtract - taking one number away from another, finding the difference between the two. We use the symbol '-'

| 2-Digit Numbers | | Compare Numbers | |
|---|---|-----------------|--|
| <p>26</p> <p>twenty six</p> <p>20 6</p> | <p>Tens Ones</p> <p>36 = 36 equals</p> <p>26 < 34 less than</p> <p>24 > 19 greater than</p> | | |
| Counting | | Order Numbers | |
| <p>Counting in 2s</p> <p>0 2 4 6 8 10 12 14 16 18 20</p> <p>Counting in 3s</p> <p>0 3 6 9 12 15 18 21 24 27 30</p> <p>Counting in 5s</p> <p>0 5 10 15 20 25 30 35 40 45 50</p> <p>Counting in 10s</p> <p>0 10 20 30 40 50 60 70 80 90 100</p> | <p>36 37 38 39 40 41 42 43 44</p> <p>37 < 39 < 42</p> <p>45 48 52 53 61</p> <p>smallest greatest</p> | | |

| Read, Write and Represent Numbers to 100 | | | | | | | | | |
|--|-------------|-----------------------|--|--|-----------|--|----|------|--|
| 14 | fourteen | one ten four ones | | | Tens Ones | | 14 | 10 4 | |
| 29 | twenty-nine | two tens nine ones | | | Tens Ones | | 29 | 20 9 | |
| 42 | forty-two | four tens two ones | | | Tens Ones | | 42 | 40 2 | |
| <p>0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20</p> <p>zero one two three four five six seven eight nine ten eleven twelve thirteen fourteen fifteen sixteen seventeen eighteen nineteen</p> | | | | | | | | | |

| Addition and Subtraction Bonds to 20 | | |
|---|--|--|
| <p>15 20 5</p> <p>15 + 5 = 20 20 - 5 = 15 20 - 15 = 5</p> <p>4 + 3 = 7</p> | <p>12</p> <p>7 5</p> <p>7 + 5 = 12 12 - 5 = 7 12 - 7 = 5</p> | <p>15 - 7 = 8</p> |
| Methods | | |
| <p>Add 2-digit and 1-digit</p> <p>27 + 6 = 33</p> <p>Subtract 1-digit from 2-digit</p> <p>33 - 6 = 27</p> | <p>Add 2-digit numbers</p> <p>34 + 28 = 62</p> <p>3 tens and 4 ones add 2 tens and 8 ones equals 5 tens and 12 ones becomes 6 tens and 2 ones</p> | <p>Subtract 2-digit numbers</p> <p>62 - 28 = 34</p> <p>6 tens and 2 ones becomes 5 tens and 12 ones subtract 2 tens and 8 ones equals 3 tens and 4 ones</p> |
| Addition and Subtraction Bonds to 100 | | |
| <p>2 + 8 = 10 so 20 + 80 = 100</p> | <p>32 + 68 = 100</p> <p>3 tens and 2 ones + 6 tens and 8 ones = 9 tens and 10 ones = 10 tens = one hundred</p> | |

| More or Less/ Add and Subtract 1s and 10s | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------|--------|---------|---|----|----|----|----|----|--|------|------|----|------|----|--|----|------|----|--|
| <p>Add and subtract 1s</p> <p>24 + 1 = 25 24 + 2 = 26 24 + 3 = 27</p> <p>37 - 1 = 36 37 - 2 = 35 37 - 3 = 34</p> <p>There are 7 flowers in a vase. One more is added. Now there are 8 flowers.</p> | <p>10 More or Less</p> <p>30 40 50 60 70 80</p> <p>47 57 67 77 87 97</p> <p>The ones digit stays the same.</p> <table border="1"> <thead> <tr> <th>10 less</th> <th>Number</th> <th>10 more</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11</td> <td>21</td> </tr> <tr> <td>34</td> <td>44</td> <td>54</td> </tr> </tbody> </table> <p>Take care when crossing hundreds:</p> <p>86 96 106 116</p> | 10 less | Number | 10 more | 1 | 11 | 21 | 34 | 44 | 54 | <p>Add and Subtract 10s</p> <p>10 30 50 70 90</p> <p>3 33 63 93</p> <table border="1"> <thead> <tr> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td>27</td> <td>+ 40</td> </tr> <tr> <td>67</td> <td></td> </tr> <tr> <td>72</td> <td>- 30</td> </tr> <tr> <td>42</td> <td></td> </tr> </tbody> </table> <p>Crossing hundreds:</p> <p>74 94 114 134</p> | Tens | Ones | 27 | + 40 | 67 | | 72 | - 30 | 42 | |
| 10 less | Number | 10 more | | | | | | | | | | | | | | | | | | | |
| 1 | 11 | 21 | | | | | | | | | | | | | | | | | | | |
| 34 | 44 | 54 | | | | | | | | | | | | | | | | | | | |
| Tens | Ones | | | | | | | | | | | | | | | | | | | | |
| 27 | + 40 | | | | | | | | | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | | | | | | | | | | |
| 72 | - 30 | | | | | | | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | | | | | | |