

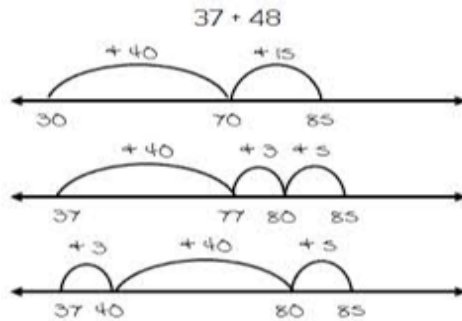
Mental Maths/Number Talks Strategies

Addition

Adding Up in Chunks/Counting On

On

$$37 + 48$$



Reordering

$$25 + 26 + 75$$



$$100 + 26 = 126$$

Place Value - Partitioning

$$116 + 127$$

$$100 + 100 = 200$$

$$10 + 20 = 30$$

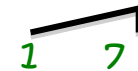
$$6 + 7 = 13$$

$$200 + 30 + 13 = 243$$

Making Tens/Bridging through

10

$$49 + 38$$



$$50 + 37 = 87$$

Compensation

$$67 + 28$$

+2

/

$$67 + 30 = 97$$

$$97 - 2 = 95$$

Doubles/Near Doubles

$$16 + 17$$



$$16 + 16 = 32$$

$$32 + 1 = 33$$

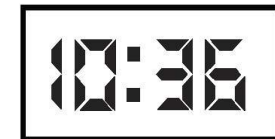
Friendly Numbers

$$28 + 47$$

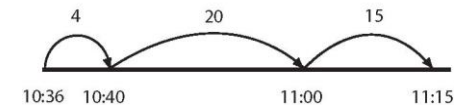
+2 -2

$$30 + 45 = 75$$

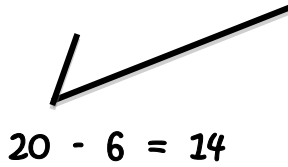
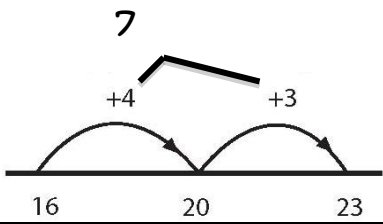
Bridging through 60



How many minutes is it to the next hour?



Mental Maths/Number Talks Strategies Subtraction

<p><u>Removal or Counting Back</u></p> <p>123 - 69 123 - (20+40+3+6) 123 - 20 = 103 103 - 40 = 63 63 - 3 = 60 60 - 6 = 54</p>	<p><u>Reordering</u></p> <p style="text-align: center;">25 - 6 - 5</p>  <p>20 - 6 = 14</p>	<p><u>Place Value - Partitioning</u></p> <p style="text-align: center;">367 - 154</p> <p style="text-align: center;">367 - 100 = 267 267 - 50 = 217 217 - 4 = 213</p> <p style="text-align: center;">367 - 100 - 50 - 4 = 213</p>	<p><u>Adding Up/Bridging through 10</u></p> <p style="text-align: center;">23 - 16</p> <p style="text-align: center;">16 + 4 = 20 20 + 3 = 23</p> 
<p><u>Place Value & Negative Numbers</u></p> <p style="text-align: center;">399 - 254</p> <p>(300+90+9) - (200+50+9)</p> <p style="text-align: center;">300 + 90 + 9 - 200 + 50 + 4 100 + 40 + 5 = 145</p>	<p><u>Adjusting for Easier Numbers</u></p> <p style="text-align: center;">123 - 59</p> <p style="text-align: center;">+1</p> <p style="text-align: center;">123 - 60 = 63 63 + 1 = 64</p>	<p><u>Keep a Constant Difference</u></p> <p style="text-align: center;">151 - 98</p> <p style="text-align: center;">(151 + 2) - (98 + 2) 153 - 100 = 53 151 - 98 = 53</p>	

Mental Maths/Number Talks Strategies

Multiplication & Division

<p><u>Friendly Numbers</u></p> <p>9×15 $10 \times 15 = 150$ $150 - 15 = 135$</p> <p>Don't forget to 'undo' your change!</p>	<p><u>Repeated Addition</u></p> <p>6×15 $15+15+15+15+15+15$ $15 + 15 = 30$ $30 + 15 = 45$ $45 + 15 = 60$ $60 + 15 = 75$ $75 + 15 = 90$</p>	<p><u>Partial Products</u></p> <p>6×125 $6 \times (100 + 20 + 5)$ $(6 \times 100) + (6 \times 20) + (6 \times 5)$ $600 + 120 + 30 = 750$</p>	<p><u>Doubling and Halving</u></p> <p>24×8 $\times 2 \quad \div 2$ 48×4 $\times 2 \quad \div 2$ 96×2 $\times 2 \quad \div 2$ 192</p>						
<p><u>Breaking Factors into Smaller Factors</u></p> <p>12×25 \wedge 2×6 $2 \times 25 = 50$ $50 \times 6 = 300$</p>	<p><u>Grid Method</u></p> <p>35×7</p> <table border="1"> <tr> <td>x</td> <td>30</td> <td>5</td> </tr> <tr> <td>7</td> <td>210</td> <td>35</td> </tr> </table> <p>$210 + 35 = 245$</p>	x	30	5	7	210	35	<p><u>Partial Quotients</u></p> $ \begin{array}{r} \overline{) 550} \\ \underline{- 150} \\ 400 \\ \underline{- 300} \\ 100 \\ \underline{- 30} \\ 70 \\ \underline{- 60} \\ 10 \end{array} $ <p>36 R 10</p>	<p><u>Multiplying Up</u></p> <p>$72 \div 8$ $8 \times 5 = 40$ $8 \times 4 = 32$ $(5 + 4) = (40 + 32)$ $8 \times 9 = 72$</p>
x	30	5							
7	210	35							
<p><u>Repeated Subtraction</u></p> <p>$24 \div 6$ $24 - 6 - 6 - 6 - 6$ $6 \times 4 = 24$ SO $24 \div 6 = 4$</p>									