

St Oswald's Visual Calculation Policy - Year 3/4

Addition:

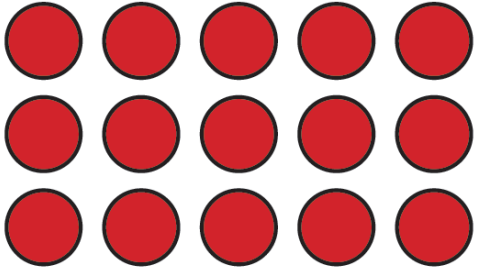
<p>A3: Forwards Jump</p> $43 + 24 = 67$ <p>43 53 63 64 65 66 67</p>	<p>A4: Partitioning</p> $43 + 24 = 67$ $40 + 20 = 60$ $3 + 4 = 7$ $60 + 7 = 67$	<p>A5: Partition Jot</p> $43 + 24 = 67$ $60 + 7 = 67$	<p>A6: Expanded Column Addition</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td></td><td>100</td><td>10</td><td>1</td></tr> <tr><td></td><td>6</td><td>8</td><td>7</td></tr> <tr><td>+</td><td>2</td><td>4</td><td>8</td></tr> <tr><td></td><td></td><td>1</td><td>5</td></tr> <tr><td></td><td>1</td><td>2</td><td>0</td></tr> <tr><td></td><td>8</td><td>0</td><td>0</td></tr> <tr><td></td><td>9</td><td>3</td><td>5</td></tr> </table>		100	10	1		6	8	7	+	2	4	8			1	5		1	2	0		8	0	0		9	3	5	<p>A7: Column Addition</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td></td><td>100</td><td>10</td><td>1</td></tr> <tr><td></td><td>6</td><td>8</td><td>7</td></tr> <tr><td>+</td><td>2</td><td>4</td><td>8</td></tr> <tr><td></td><td></td><td>1</td><td>5</td></tr> <tr><td></td><td>1</td><td>2</td><td>0</td></tr> <tr><td></td><td>8</td><td>0</td><td>0</td></tr> <tr><td></td><td>9</td><td>3</td><td>5</td></tr> </table>		100	10	1		6	8	7	+	2	4	8			1	5		1	2	0		8	0	0		9	3	5
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Subtraction:

<p>S7: Backwards Jump</p> <p>38 45 75</p> <p>-7 -30</p> $75 - 37 = 38$	<p>S8: Triple Jump!</p> <p>37 40 70 75</p> <p>+3 +30 +5</p> <p>Hop Skip Jump</p> $75 - 37 = 38$	<p>S9: 10s Jump, 1s Jump!</p> <p>37 67 75</p> <p>+30 +8</p> $75 - 37 = 38$	<p>S11: Column Subtraction</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td></td><td>100</td><td>10</td><td>1</td></tr> <tr><td></td><td>6</td><td>11</td><td>1</td></tr> <tr><td></td><td>7</td><td>2</td><td>3</td></tr> <tr><td>-</td><td>3</td><td>5</td><td>6</td></tr> <tr><td></td><td></td><td>1</td><td>7</td></tr> <tr><td></td><td>3</td><td>6</td><td>7</td></tr> </table>		100	10	1		6	11	1		7	2	3	-	3	5	6			1	7		3	6	7
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Multiplication:

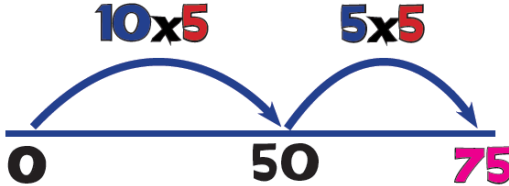
M3: Arrays



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

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M4: Multi Boing!



$10 \times 5 = 50$
 $5 \times 5 = 25$
 $15 \times 5 = 75$

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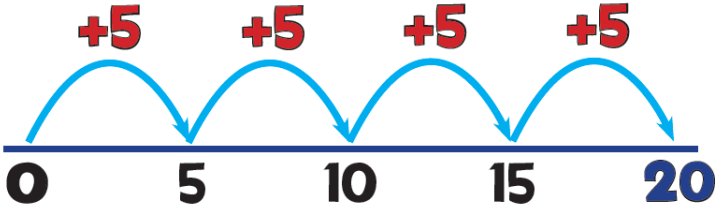
M6: Expanded Column

$$\begin{array}{r} 100 \ 10 \ 1 \\ 147 \\ \times \quad 4 \\ \hline 28 \quad (4 \times 7) \\ 160 \quad (4 \times 40) \\ 400 \quad (4 \times 100) \\ \hline 588 \end{array}$$

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Division:

D5: Grouping on a Number Line

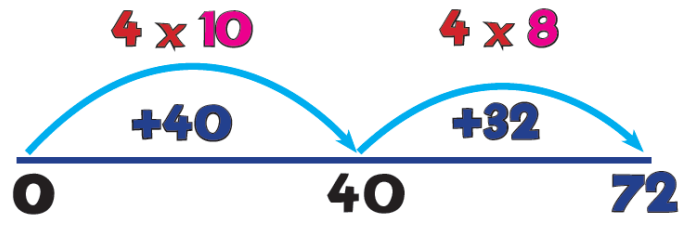


"How many 5s in 20?"
 Answer: 4

$20 \div 5 = 4$

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D7: Chunking Jump



"How many 4s in 72?"
 Answer: 18

$72 \div 4 = 18$

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D10: Short Division

$$136 \div 4 = 34$$

$$\begin{array}{r} 34 \\ 4 \overline{) 136} \\ \underline{12} \\ 16 \\ \underline{16} \\ 0 \end{array}$$

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