

## Year 3 Multiplication and Division Knowledge Organiser.

Multiplication and Division												Knowledge Organiser																																																																																																																																																																																					
Key Vocabulary	Multiplication and Division Facts (3, 4 and 8 multiplication tables)																																																																																																																																																																																																
times tables	<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 5%;">1</th><th style="width: 5%;">2</th><th style="width: 5%;">3</th><th style="width: 5%;">4</th><th style="width: 5%;">5</th><th style="width: 5%;">6</th><th style="width: 5%;">7</th><th style="width: 5%;">8</th><th style="width: 5%;">9</th><th style="width: 5%;">10</th><th style="width: 5%;">11</th><th style="width: 5%;">12</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>2</td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td><td>14</td><td>16</td><td>18</td><td>20</td><td>22</td><td>24</td></tr> <tr><td>3</td><td>3</td><td>6</td><td>9</td><td>12</td><td>15</td><td>18</td><td>21</td><td>24</td><td>27</td><td>30</td><td>33</td><td>36</td></tr> <tr><td>4</td><td>4</td><td>8</td><td>12</td><td>16</td><td>20</td><td>24</td><td>28</td><td>32</td><td>36</td><td>40</td><td>44</td><td>48</td></tr> <tr><td>5</td><td>5</td><td>10</td><td>15</td><td>20</td><td>25</td><td>30</td><td>35</td><td>40</td><td>45</td><td>50</td><td>55</td><td>60</td></tr> <tr><td>6</td><td>6</td><td>12</td><td>18</td><td>24</td><td>30</td><td>36</td><td>42</td><td>48</td><td>54</td><td>60</td><td>66</td><td>72</td></tr> <tr><td>7</td><td>7</td><td>14</td><td>21</td><td>28</td><td>35</td><td>42</td><td>49</td><td>56</td><td>63</td><td>70</td><td>77</td><td>84</td></tr> <tr><td>8</td><td>8</td><td>16</td><td>24</td><td>32</td><td>40</td><td>48</td><td>56</td><td>64</td><td>72</td><td>80</td><td>88</td><td>96</td></tr> <tr><td>9</td><td>9</td><td>18</td><td>27</td><td>36</td><td>45</td><td>54</td><td>63</td><td>72</td><td>81</td><td>90</td><td>99</td><td>108</td></tr> <tr><td>10</td><td>10</td><td>20</td><td>30</td><td>40</td><td>50</td><td>60</td><td>70</td><td>80</td><td>90</td><td>100</td><td>110</td><td>120</td></tr> <tr><td>11</td><td>11</td><td>22</td><td>33</td><td>44</td><td>55</td><td>66</td><td>77</td><td>88</td><td>99</td><td>110</td><td>121</td><td>132</td></tr> <tr><td>12</td><td>12</td><td>24</td><td>36</td><td>48</td><td>60</td><td>72</td><td>84</td><td>96</td><td>108</td><td>120</td><td>132</td><td>144</td></tr> </tbody> </table> <div style="display: flex; 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## Multiplication and Division

## Knowledge Organiser

### Written Multiplication Methods - No Regrouping

Tens	Ones

$23 \times 3 = 69$

	T	O
	2	3
x		3
	6	9

### Written Multiplication Methods - With Regrouping

Tens	Ones

$24 \times 4 = 96$

	T	O
	2	4
x		4
	9	6
	1	

### Written Division Methods - No Regrouping

Tens	Ones

$84 \div 4$

	2	1
4	8	4

$80 \div 4$     $4 \div 4$

### Written Division Methods - With Regrouping

Tens	Ones

$45 \div 3$

	1	5
3	4	5

$30 \div 3$     $15 \div 3$