



## Year 3 Multiplication and Division

Key Vocabulary	Multiplication and Division Facts (3, 4 and 8 multiplication tables)												
times table	x	1	2	3	4	5	6	7	8	9	10	11	12
multiply by	1	1	2	3	4	5	6	7	8	9	10	11	12
divide by	2	2	4	6	8	10	12	14	16	18	20	22	24
array	3	3	6	9	12	15	18	21	24	27	30	33	36
fact families	4	4	8	12	16	20	24	28	32	36	40	44	48
regrouping	5	5	10	15	20	25	30	35	40	45	50	55	60
	6	6	12	18	24	30	36	42	48	54	60	66	72
	7	7	14	21	28	35	42	49	56	63	70	77	84
	8	8	16	24	32	40	48	56	64	72	80	88	96
	9	9	18	27	36	45	54	63	72	81	90	99	108
	10	10	20	30	40	50	60	70	80	90	100	110	120
	11	11	22	33	44	55	66	77	88	99	110	121	132
	12	12	24	36	48	60	72	84	96	108	120	132	144

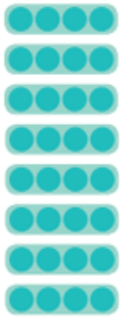
  

<h3 style="margin: 0;">3 x Tables</h3> <div style="background-color: #fff; padding: 5px; margin: 5px;"> <math>1 \times 3 = 3</math>  <math>2 \times 3 = 6</math>  <math>3 \times 3 = 9</math>  <math>4 \times 3 = 12</math>  <math>5 \times 3 = 15</math>  <math>6 \times 3 = 18</math>  <math>7 \times 3 = 21</math>  <math>8 \times 3 = 24</math>  <math>9 \times 3 = 27</math>  <math>10 \times 3 = 30</math>  <math>11 \times 3 = 33</math>  <math>12 \times 3 = 36</math> </div> <div style="background-color: #fff; padding: 5px; margin: 5px;"> <math>3 + 3 = 6</math>  <math>6 + 3 = 9</math>  <math>9 + 3 = 12</math>  <math>12 + 3 = 15</math>  <math>15 + 3 = 18</math>  <math>18 + 3 = 21</math>  <math>21 + 3 = 24</math>  <math>24 + 3 = 27</math>  <math>27 + 3 = 30</math>  <math>30 + 3 = 33</math>  <math>33 + 3 = 36</math> </div>	<h3 style="margin: 0;">4 x Tables</h3> <div style="background-color: #fff; padding: 5px; margin: 5px;"> <math>1 \times 4 = 4</math>  <math>2 \times 4 = 8</math>  <math>3 \times 4 = 12</math>  <math>4 \times 4 = 16</math>  <math>5 \times 4 = 20</math>  <math>6 \times 4 = 24</math>  <math>7 \times 4 = 28</math>  <math>8 \times 4 = 32</math>  <math>9 \times 4 = 36</math>  <math>10 \times 4 = 40</math>  <math>11 \times 4 = 44</math>  <math>12 \times 4 = 48</math> </div> <div style="background-color: #fff; padding: 5px; margin: 5px;"> <math>4 + 4 = 8</math>  <math>8 + 4 = 12</math>  <math>12 + 4 = 16</math>  <math>16 + 4 = 20</math>  <math>20 + 4 = 24</math>  <math>24 + 4 = 28</math>  <math>28 + 4 = 32</math>  <math>32 + 4 = 36</math>  <math>36 + 4 = 40</math>  <math>40 + 4 = 44</math>  <math>44 + 4 = 48</math> </div>	<h3 style="margin: 0;">8 x Tables</h3> <div style="background-color: #fff; padding: 5px; margin: 5px;"> <math>1 \times 8 = 8</math>  <math>2 \times 8 = 16</math>  <math>3 \times 8 = 24</math>  <math>4 \times 8 = 32</math>  <math>5 \times 8 = 40</math>  <math>6 \times 8 = 48</math>  <math>7 \times 8 = 56</math>  <math>8 \times 8 = 64</math>  <math>9 \times 8 = 72</math>  <math>10 \times 8 = 80</math>  <math>11 \times 8 = 88</math>  <math>12 \times 8 = 96</math> </div> <div style="background-color: #fff; padding: 5px; margin: 5px;"> <math>8 + 8 = 16</math>  <math>16 + 8 = 24</math>  <math>24 + 8 = 32</math>  <math>32 + 8 = 40</math>  <math>40 + 8 = 48</math>  <math>48 + 8 = 56</math>  <math>56 + 8 = 64</math>  <math>64 + 8 = 72</math>  <math>72 + 8 = 80</math>  <math>80 + 8 = 88</math>  <math>88 + 8 = 96</math> </div>
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## Write and Calculate Mathematical Statements

$4 \times 8 = 32$

$32 \div 8 = 4$



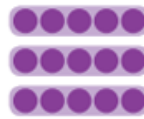
$8 \times 4 = 32$

$32 \div 4 = 8$



$5 \times 3 = 15$

$15 \div 3 = 5$



$3 \times 5 = 15$

$15 \div 5 = 3$



## Related Calculations

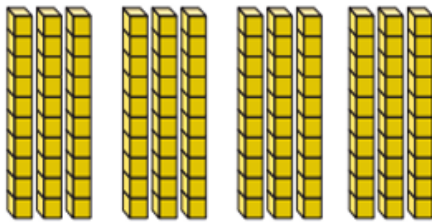
$3 \times 4 = 12$



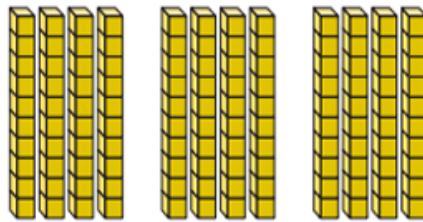
$4 \times 3 = 12$



$30 \times 4 = 120$



$40 \times 3 = 120$



### 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

$30 \div 3$        $15 \div 3$