Y4 Mathematics

Multiplication and Division Facts

Multiplication and Division



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		_												
	×	1	2	3	4	5	6	7	8	9	10	11	12	
	1	1	2	3	4	5	6	7	8	9	10	11	12	
	2	2	4	6	8	10	12	14	16	18	20	22	24	
	3	3	6	9	12	15	18	21	24	27	30	33	36	
	4	4	8	12	16	20	24	28	32	36	40	44	48	3 x 7 = 21 7 x 3 = 21
	5	5	10	15	20	25	30	35	40	45	50	55	60	Multiplication is commutative
	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	$21 \div 7 = 3$ $21 \div 3 = 7$
	8	8	16	24	32	40	48	56	64	72	80	88	96	Division is not commutative
	9	9	18	27	36	45	54	63	72	81	90	99	108	Multiplication and division are
	10	10	20	30	40	50	60	70	80	90	100	110	120	inverse operations
	11	11	22	33	44	55	66	77	88	99	110	121	132	inverse operations
	12	12	24	36	48	60	72	84	96	108	120	132	144	
Factor Pairs									Place Value with X and ÷					
1														
		1 12 1 x 12 and 12 x 1		5 x 1 = 5 5 ÷ 1 = 5										
						2	x 6	anc	6	x 2				
2 5 3 x 4 and				4 2	x 3		5 x 10 = 50 50 ÷ 10 = 5							
Factors are 1 and 12														
	3 4 2 and 6				$5 \times 100 = 500 500 \div 100 = 500$									
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array	A set of objects arranged in order. Arrays make counting easier.			
multiply times	Repeatedly adding the same amount - the amount increases			
multiple	The result of multiplying a number by a whole number			
factors	Numbers that we multiply together to get a product			
product	The answer when two or more factors are multiplied together			
divide	Split into equal parts or groups			
remainder	An amount left over after division			
commutative	Changing the order of the calculation gives the same result			
inverse	The reverse of - multiplication is the inverse of division			

Y4 Mathematics Multiplication and Division Formal methods 96 ÷ 3 H T 0 1 2 4 3 2 00 0

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 $96 \div 3 = 32$

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Related facts from Times Tabl	es	Using factors to multiply	Multiply three numbers
6 3	30 6	$(2 \times 3) \times 4 = 24$ (2 × 4) × 3 = 24 (3 × 4) × 2 = 24	4 x 3 x 6 = 72 4 x 3 x 6 = 72 4 x 6 x 3 = 72 3 x 4 x 6 = 72
3 x 6 = 18	6 x 3 = 18		
18÷3=6	18 ÷ 6 = 3		3 x 6 x 4 = 72
30 x 6 = 180	60 x 3 = 180		6 x 4 x 3 = 72
180 ÷ 30 = 6	180 ÷ 60 = 3		6 x 3 x 4 = 72
(3)	- No		