


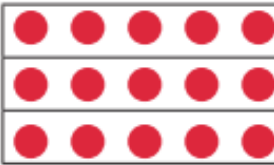
product
multiply array
times times by
repeated addition  groups of sets of lots of

equally grouped
half divided by
halves shared by
equally shared

Repeated Addition


$$5 + 5 + 5 = 15$$

Array



$$5 \times 3 = 15$$

Equal Groups



$$5 \times 3 = 15$$

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

3

$$3 \times 1 = 3$$

$$3 \times 2 = 6$$

$$3 \times 3 = 9$$

$$3 \times 4 = 12$$

$$3 \times 5 = 15$$

$$3 \times 6 = 18$$

$$3 \times 7 = 21$$

$$3 \times 8 = 24$$

$$3 \times 9 = 27$$

$$3 \times 10 = 30$$

$$3 \times 11 = 33$$

$$3 \times 12 = 36$$

4

$$4 \times 1 = 4$$

$$4 \times 2 = 8$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$

$$4 \times 5 = 20$$

$$4 \times 6 = 24$$

$$4 \times 7 = 28$$

$$4 \times 8 = 32$$

$$4 \times 9 = 36$$

$$4 \times 10 = 40$$

$$4 \times 11 = 44$$

$$4 \times 12 = 48$$

8

$$8 \times 1 = 8$$

$$8 \times 2 = 16$$

$$8 \times 3 = 24$$

$$8 \times 4 = 32$$

$$8 \times 5 = 40$$

$$8 \times 6 = 48$$

$$8 \times 7 = 56$$

$$8 \times 8 = 64$$

$$8 \times 9 = 72$$


$$8 \times 10 = 80$$


$$8 \times 11 = 88$$

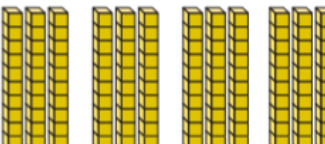
$$8 \times 12 = 96$$

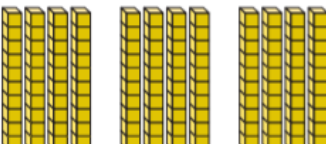
How to use arrays for multiplication and division

Related Calculations

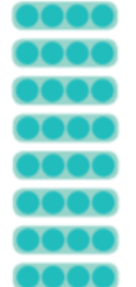
$$3 \times 4 = 12$$


$$4 \times 3 = 12$$



$$30 \times 4 = 120$$


$$40 \times 3 = 120$$



$$4 \times 8 = 32$$

$$32 \div 8 = 4$$


$$8 \times 4 = 32$$

$$32 \div 4 = 8$$


$$5 \times 3 = 15$$

$$15 \div 3 = 5$$


$$3 \times 5 = 15$$

$$15 \div 5 = 3$$
