

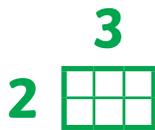
Multiplication and Division Families with Arrays

2



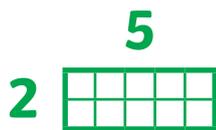
$2 \times 1 = 2 \quad 2 \div 2 = 1$

$1 \times 2 = 2 \quad 2 \div 1 = 2$



$2 \times 3 = 6 \quad 6 \div 2 = 3$

$3 \times 2 = 6 \quad 6 \div 3 = 2$



$2 \times 5 = 10 \quad 10 \div 2 = 5$

$5 \times 2 = 10 \quad 10 \div 5 = 2$



$2 \times 7 = 14 \quad 14 \div 2 = 7$

$7 \times 2 = 14 \quad 14 \div 7 = 2$



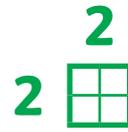
$2 \times 9 = 18 \quad 18 \div 2 = 9$

$9 \times 2 = 18 \quad 18 \div 9 = 2$



$2 \times 11 = 22 \quad 22 \div 2 = 11$

$11 \times 2 = 22 \quad 22 \div 11 = 2$

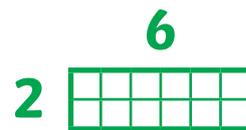


$2 \times 2 = 4 \quad 4 \div 2 = 2$



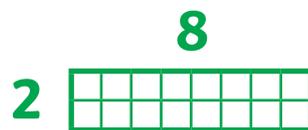
$2 \times 4 = 8 \quad 8 \div 2 = 4$

$4 \times 2 = 8 \quad 8 \div 4 = 2$



$2 \times 6 = 12 \quad 12 \div 2 = 6$

$6 \times 2 = 12 \quad 12 \div 6 = 2$



$2 \times 8 = 16 \quad 16 \div 2 = 8$

$8 \times 2 = 16 \quad 16 \div 8 = 2$



$2 \times 10 = 20 \quad 20 \div 2 = 10$

$10 \times 2 = 20 \quad 20 \div 10 = 2$



$2 \times 12 = 24 \quad 24 \div 2 = 12$

$12 \times 2 = 24 \quad 24 \div 12 = 2$

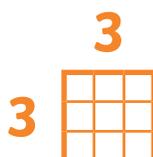
Multiplication and Division Families with Arrays

3

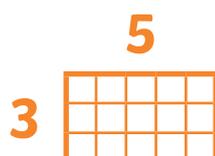


$3 \times 1 = 3 \quad 3 \div 3 = 1$

$1 \times 3 = 3 \quad 3 \div 1 = 3$

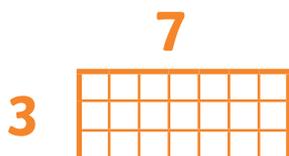


$3 \times 3 = 9 \quad 9 \div 3 = 3$



$3 \times 5 = 15 \quad 15 \div 3 = 5$

$5 \times 3 = 15 \quad 15 \div 5 = 3$



$3 \times 7 = 21 \quad 21 \div 3 = 7$

$7 \times 3 = 21 \quad 21 \div 7 = 3$



$3 \times 9 = 27 \quad 27 \div 3 = 9$

$9 \times 3 = 27 \quad 27 \div 9 = 3$



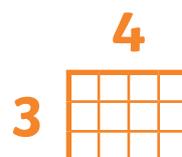
$3 \times 11 = 33 \quad 33 \div 3 = 11$

$11 \times 3 = 33 \quad 33 \div 11 = 3$



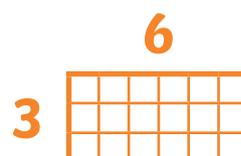
$3 \times 2 = 6 \quad 6 \div 3 = 2$

$2 \times 3 = 6 \quad 6 \div 2 = 3$



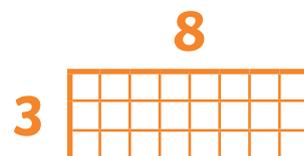
$3 \times 4 = 12 \quad 12 \div 3 = 4$

$4 \times 3 = 12 \quad 12 \div 4 = 3$



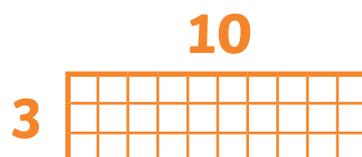
$3 \times 6 = 18 \quad 18 \div 3 = 6$

$6 \times 3 = 18 \quad 18 \div 6 = 3$



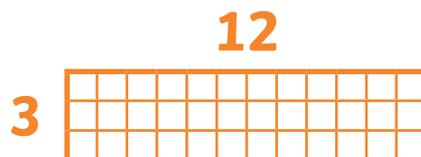
$3 \times 8 = 24 \quad 24 \div 3 = 8$

$8 \times 3 = 24 \quad 24 \div 8 = 3$



$3 \times 10 = 30 \quad 30 \div 3 = 10$

$10 \times 3 = 30 \quad 30 \div 10 = 3$



$3 \times 12 = 36 \quad 36 \div 3 = 12$

$12 \times 3 = 36 \quad 36 \div 12 = 3$

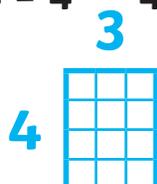
Multiplication and Division Families with Arrays

4



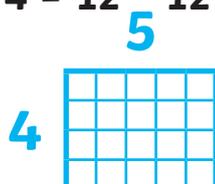
$4 \times 1 = 4 \quad 4 \div 4 = 1$

$1 \times 4 = 4 \quad 4 \div 1 = 4$



$4 \times 3 = 12 \quad 12 \div 4 = 3$

$3 \times 4 = 12 \quad 12 \div 3 = 4$



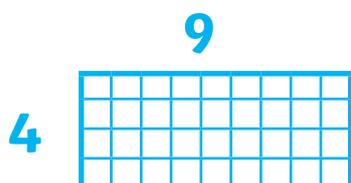
$4 \times 5 = 20 \quad 20 \div 4 = 5$

$5 \times 4 = 20 \quad 20 \div 5 = 4$



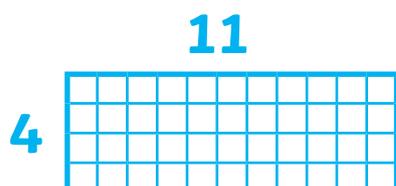
$4 \times 7 = 28 \quad 28 \div 4 = 7$

$7 \times 4 = 28 \quad 28 \div 7 = 4$



$4 \times 9 = 36 \quad 36 \div 4 = 9$

$9 \times 4 = 36 \quad 36 \div 9 = 4$



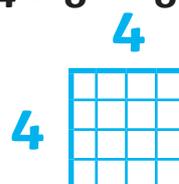
$4 \times 11 = 44 \quad 44 \div 4 = 11$

$11 \times 4 = 44 \quad 44 \div 11 = 4$

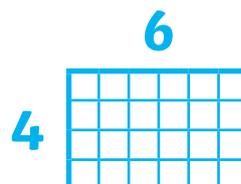


$4 \times 2 = 8 \quad 8 \div 4 = 2$

$2 \times 4 = 8 \quad 8 \div 2 = 4$



$4 \times 4 = 16 \quad 16 \div 4 = 4$



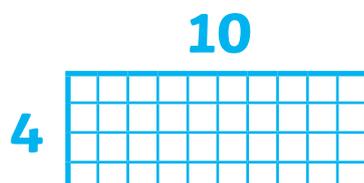
$4 \times 6 = 24 \quad 24 \div 4 = 6$

$6 \times 4 = 24 \quad 24 \div 6 = 4$



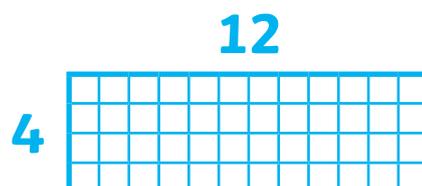
$4 \times 8 = 32 \quad 32 \div 4 = 8$

$8 \times 4 = 32 \quad 32 \div 8 = 4$



$4 \times 10 = 40 \quad 40 \div 4 = 10$

$10 \times 4 = 40 \quad 40 \div 10 = 4$



$4 \times 12 = 48 \quad 48 \div 4 = 12$

$12 \times 4 = 48 \quad 48 \div 12 = 4$



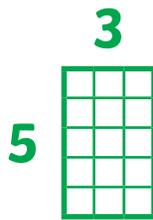
$$5 \times 1 = 5 \quad 5 \div 5 = 1$$

$$1 \times 5 = 5 \quad 5 \div 1 = 5$$



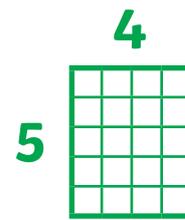
$$5 \times 2 = 10 \quad 10 \div 5 = 2$$

$$2 \times 5 = 10 \quad 10 \div 2 = 5$$



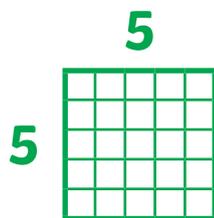
$$5 \times 3 = 15 \quad 15 \div 5 = 3$$

$$3 \times 5 = 15 \quad 15 \div 3 = 5$$

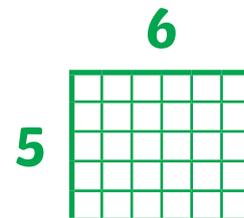


$$5 \times 4 = 20 \quad 20 \div 5 = 4$$

$$4 \times 5 = 20 \quad 20 \div 4 = 5$$

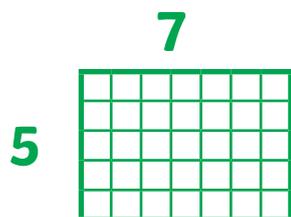


$$5 \times 5 = 25 \quad 25 \div 5 = 5$$



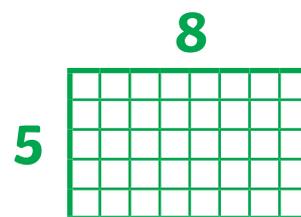
$$5 \times 6 = 30 \quad 30 \div 5 = 6$$

$$6 \times 5 = 30 \quad 30 \div 6 = 5$$



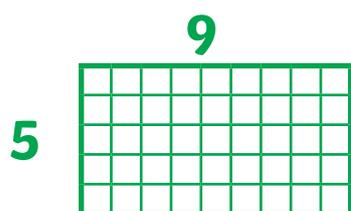
$$5 \times 7 = 35 \quad 35 \div 5 = 7$$

$$7 \times 5 = 35 \quad 35 \div 7 = 5$$



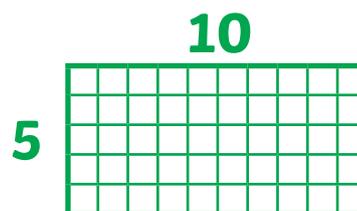
$$5 \times 8 = 40 \quad 40 \div 5 = 8$$

$$8 \times 5 = 40 \quad 40 \div 8 = 5$$



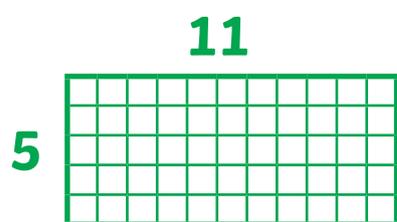
$$5 \times 9 = 45 \quad 45 \div 5 = 9$$

$$9 \times 5 = 45 \quad 45 \div 9 = 5$$



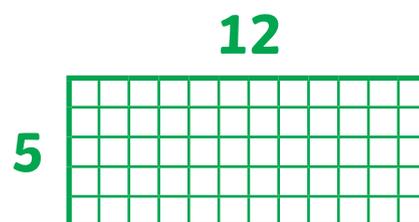
$$5 \times 10 = 50 \quad 50 \div 5 = 10$$

$$10 \times 5 = 50 \quad 50 \div 10 = 5$$



$$5 \times 11 = 55 \quad 55 \div 5 = 11$$

$$11 \times 5 = 55 \quad 55 \div 11 = 5$$



$$5 \times 12 = 60 \quad 60 \div 5 = 12$$

$$12 \times 5 = 60 \quad 60 \div 12 = 5$$



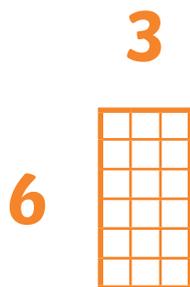
$$6 \times 1 = 6 \quad 6 \div 6 = 1$$

$$1 \times 6 = 6 \quad 6 \div 1 = 6$$



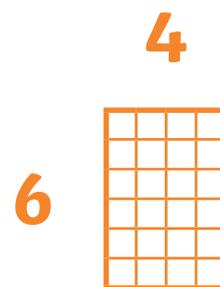
$$6 \times 2 = 12 \quad 12 \div 6 = 2$$

$$2 \times 6 = 12 \quad 12 \div 2 = 6$$



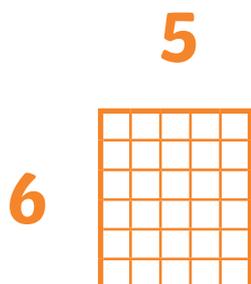
$$6 \times 3 = 18 \quad 18 \div 6 = 3$$

$$3 \times 6 = 18 \quad 18 \div 3 = 6$$



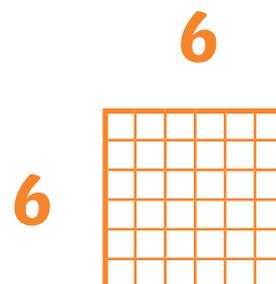
$$6 \times 4 = 24 \quad 24 \div 6 = 4$$

$$4 \times 6 = 24 \quad 24 \div 4 = 6$$



$$6 \times 5 = 30 \quad 30 \div 6 = 5$$

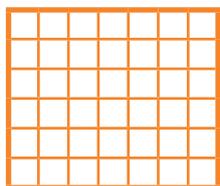
$$5 \times 6 = 30 \quad 30 \div 5 = 6$$



$$6 \times 6 = 36 \quad 36 \div 6 = 6$$

7

6

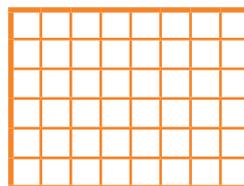


$$6 \times 7 = 42 \quad 42 \div 6 = 7$$

$$7 \times 6 = 42 \quad 42 \div 7 = 6$$

8

6

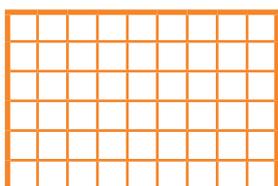


$$6 \times 8 = 48 \quad 48 \div 6 = 8$$

$$8 \times 6 = 48 \quad 48 \div 8 = 6$$

9

6

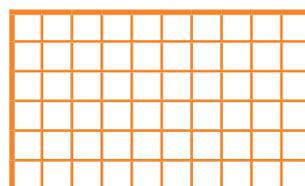


$$6 \times 9 = 54 \quad 54 \div 6 = 9$$

$$9 \times 6 = 54 \quad 54 \div 9 = 6$$

10

6

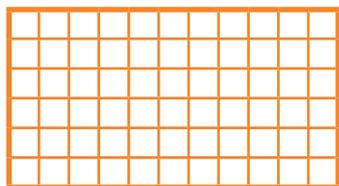


$$6 \times 10 = 60 \quad 60 \div 6 = 10$$

$$10 \times 6 = 60 \quad 60 \div 10 = 6$$

11

6

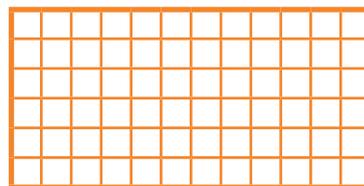


$$6 \times 11 = 66 \quad 66 \div 6 = 11$$

$$11 \times 6 = 66 \quad 66 \div 11 = 6$$

12

6



$$6 \times 12 = 72 \quad 72 \div 6 = 12$$

$$12 \times 6 = 72 \quad 72 \div 12 = 6$$



$$7 \times 1 = 7 \quad 7 \div 7 = 1$$

$$1 \times 7 = 7 \quad 7 \div 1 = 7$$



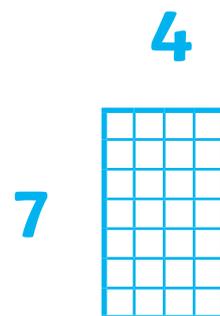
$$7 \times 2 = 14 \quad 14 \div 7 = 2$$

$$2 \times 7 = 14 \quad 14 \div 2 = 7$$



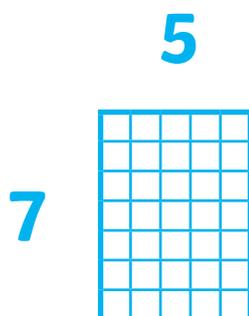
$$7 \times 3 = 21 \quad 21 \div 7 = 3$$

$$3 \times 7 = 21 \quad 21 \div 3 = 7$$



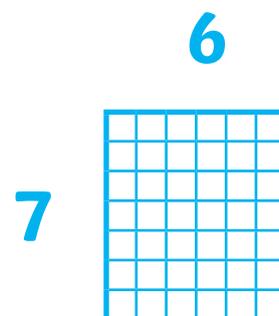
$$7 \times 4 = 28 \quad 28 \div 7 = 4$$

$$4 \times 7 = 28 \quad 28 \div 4 = 7$$



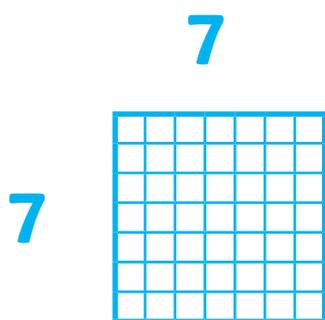
$$7 \times 5 = 35 \quad 35 \div 7 = 5$$

$$5 \times 7 = 35 \quad 35 \div 5 = 7$$

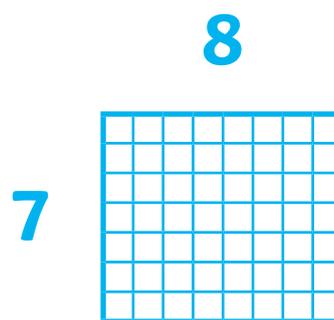


$$7 \times 6 = 42 \quad 42 \div 7 = 6$$

$$6 \times 7 = 42 \quad 42 \div 6 = 7$$

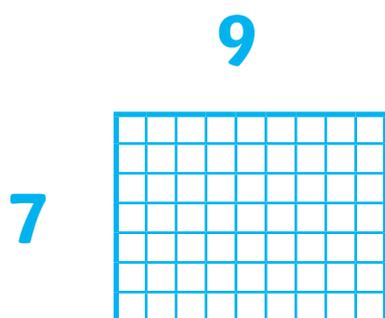


$$7 \times 7 = 49 \quad 49 \div 7 = 7$$



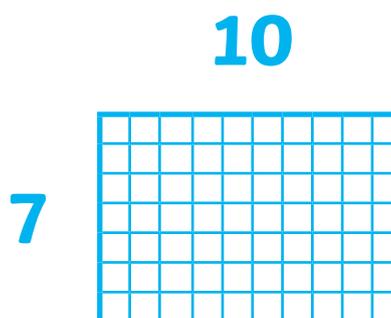
$$7 \times 8 = 56 \quad 56 \div 7 = 8$$

$$8 \times 7 = 56 \quad 56 \div 8 = 7$$



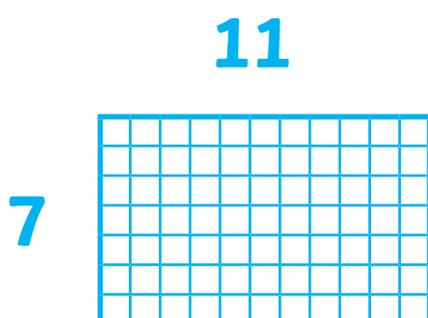
$$7 \times 9 = 63 \quad 63 \div 7 = 9$$

$$9 \times 7 = 63 \quad 63 \div 9 = 7$$



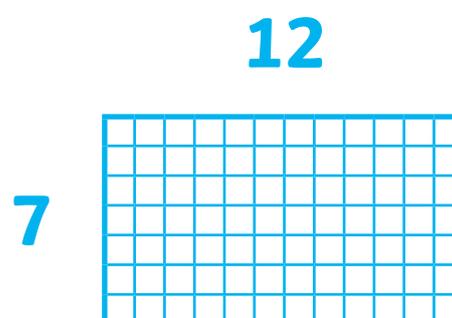
$$7 \times 10 = 70 \quad 70 \div 7 = 10$$

$$10 \times 7 = 70 \quad 70 \div 10 = 7$$



$$7 \times 11 = 77 \quad 77 \div 7 = 11$$

$$11 \times 7 = 77 \quad 77 \div 11 = 7$$



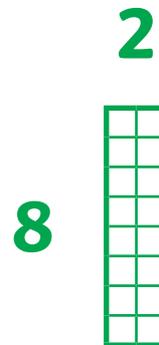
$$7 \times 12 = 84 \quad 84 \div 7 = 12$$

$$12 \times 7 = 84 \quad 84 \div 12 = 7$$



$$8 \times 1 = 8 \quad 8 \div 8 = 1$$

$$1 \times 8 = 8 \quad 8 \div 1 = 8$$



$$8 \times 2 = 16 \quad 16 \div 8 = 2$$

$$2 \times 8 = 16 \quad 16 \div 2 = 8$$



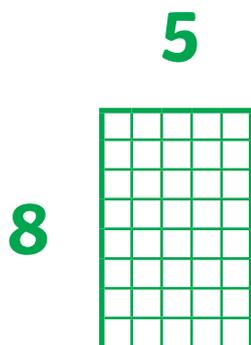
$$8 \times 3 = 24 \quad 24 \div 8 = 3$$

$$3 \times 8 = 24 \quad 24 \div 3 = 8$$



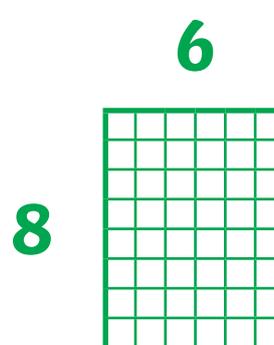
$$8 \times 4 = 32 \quad 32 \div 8 = 4$$

$$4 \times 8 = 32 \quad 32 \div 4 = 8$$



$$8 \times 5 = 40 \quad 40 \div 8 = 5$$

$$5 \times 8 = 40 \quad 40 \div 5 = 8$$

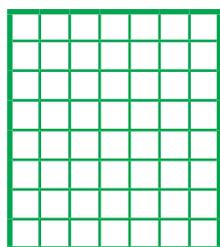


$$8 \times 6 = 48 \quad 48 \div 8 = 6$$

$$6 \times 8 = 48 \quad 48 \div 6 = 8$$

7

8

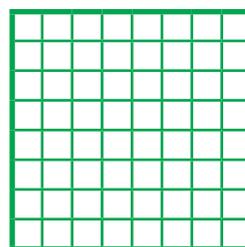


$$8 \times 7 = 56 \quad 56 \div 8 = 7$$

$$7 \times 8 = 56 \quad 56 \div 7 = 8$$

8

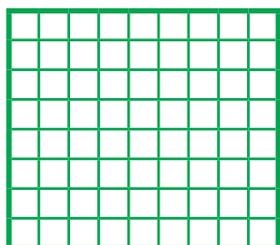
8



$$8 \times 8 = 64 \quad 64 \div 8 = 8$$

9

8

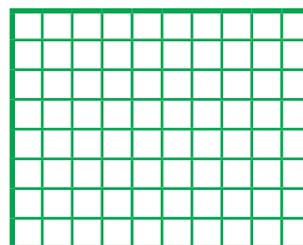


$$8 \times 9 = 72 \quad 72 \div 8 = 9$$

$$9 \times 8 = 72 \quad 72 \div 9 = 8$$

10

8

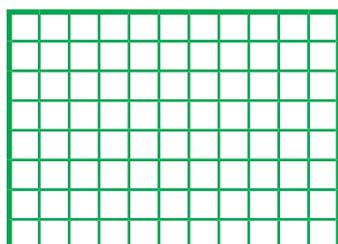


$$8 \times 10 = 80 \quad 80 \div 8 = 10$$

$$10 \times 8 = 80 \quad 80 \div 10 = 8$$

11

8

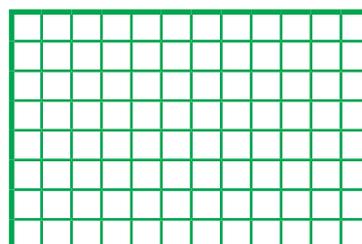


$$8 \times 11 = 88 \quad 88 \div 8 = 11$$

$$11 \times 8 = 88 \quad 88 \div 11 = 8$$

12

8



$$8 \times 12 = 96 \quad 96 \div 8 = 12$$

$$12 \times 8 = 96 \quad 96 \div 12 = 8$$



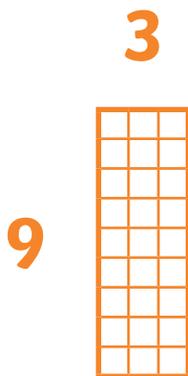
$$9 \times 1 = 9 \quad 9 \div 9 = 1$$

$$1 \times 9 = 9 \quad 9 \div 1 = 9$$



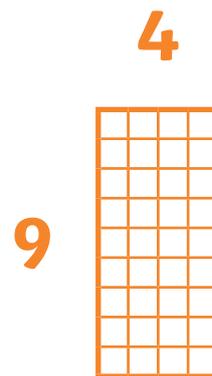
$$9 \times 2 = 18 \quad 18 \div 9 = 2$$

$$2 \times 9 = 18 \quad 18 \div 2 = 9$$



$$9 \times 3 = 27 \quad 27 \div 9 = 3$$

$$3 \times 9 = 27 \quad 27 \div 3 = 9$$



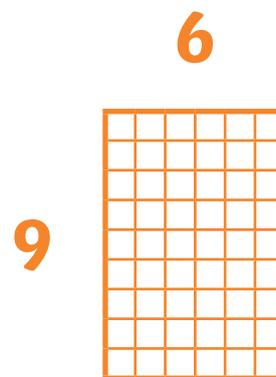
$$9 \times 4 = 36 \quad 36 \div 9 = 4$$

$$4 \times 9 = 36 \quad 36 \div 4 = 9$$



$$9 \times 5 = 45 \quad 45 \div 9 = 5$$

$$5 \times 9 = 45 \quad 45 \div 5 = 9$$

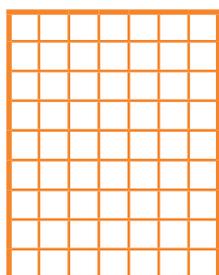


$$9 \times 6 = 54 \quad 54 \div 9 = 6$$

$$6 \times 9 = 54 \quad 54 \div 6 = 9$$

7

9

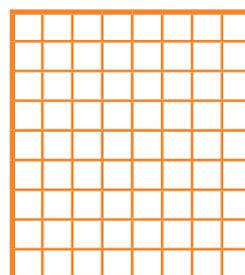


$$9 \times 7 = 63 \quad 63 \div 9 = 7$$

$$7 \times 9 = 63 \quad 63 \div 7 = 9$$

8

9

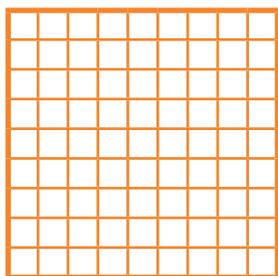


$$9 \times 8 = 72 \quad 72 \div 9 = 8$$

$$8 \times 9 = 72 \quad 72 \div 8 = 9$$

9

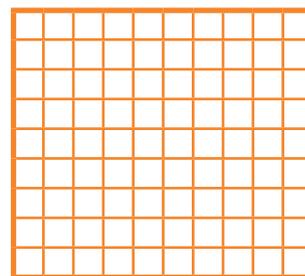
9



$$9 \times 9 = 81 \quad 81 \div 9 = 9$$

10

9

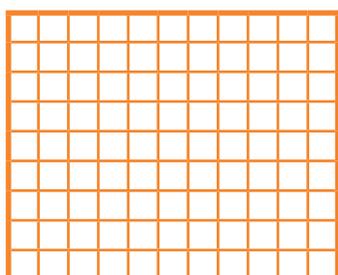


$$9 \times 10 = 90 \quad 90 \div 9 = 10$$

$$10 \times 9 = 90 \quad 90 \div 10 = 9$$

11

9

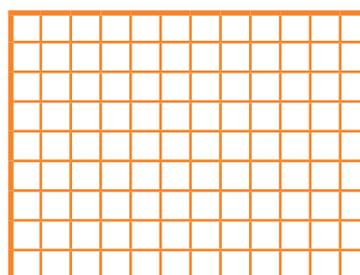


$$9 \times 11 = 99 \quad 99 \div 9 = 11$$

$$11 \times 9 = 99 \quad 99 \div 11 = 9$$

12

9



$$9 \times 12 = 108 \quad 108 \div 9 = 12$$

$$12 \times 9 = 108 \quad 108 \div 12 = 9$$

1

10



$10 \times 1 = 10$ $10 \div 10 = 1$
 $1 \times 10 = 10$ $10 \div 1 = 10$

2

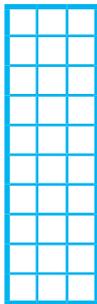
10



$10 \times 2 = 20$ $20 \div 10 = 2$
 $2 \times 10 = 20$ $20 \div 2 = 10$

3

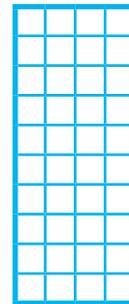
10



$10 \times 3 = 30$ $30 \div 10 = 3$
 $3 \times 10 = 30$ $30 \div 3 = 10$

4

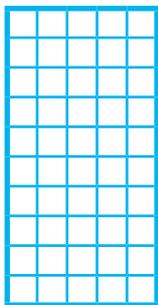
10



$10 \times 4 = 40$ $40 \div 10 = 4$
 $4 \times 10 = 40$ $40 \div 4 = 10$

5

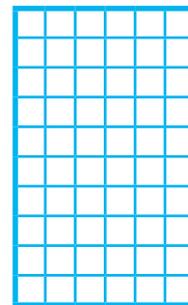
10



$10 \times 5 = 50$ $50 \div 10 = 5$
 $5 \times 10 = 50$ $50 \div 5 = 10$

6

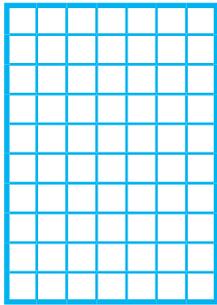
10



$10 \times 6 = 60$ $60 \div 10 = 6$
 $6 \times 10 = 60$ $60 \div 6 = 10$

7

10

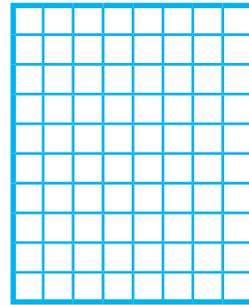


$$10 \times 7 = 70 \quad 70 \div 10 = 7$$

$$7 \times 10 = 70 \quad 70 \div 7 = 10$$

8

10

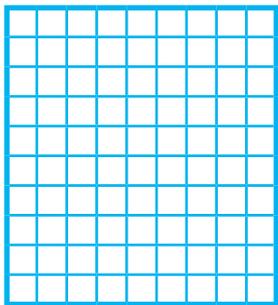


$$10 \times 8 = 80 \quad 80 \div 10 = 8$$

$$8 \times 10 = 80 \quad 80 \div 8 = 10$$

9

10

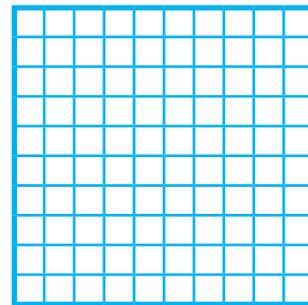


$$10 \times 9 = 90 \quad 90 \div 10 = 9$$

$$9 \times 10 = 90 \quad 90 \div 9 = 10$$

10

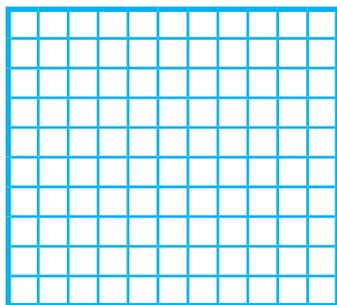
10



$$10 \times 10 = 100 \quad 100 \div 10 = 10$$

11

10

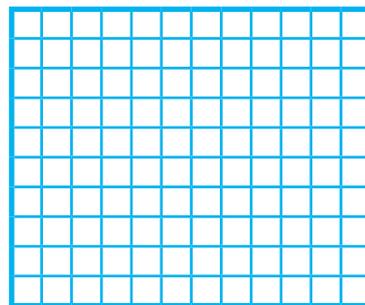


$$10 \times 11 = 110 \quad 110 \div 10 = 11$$

$$11 \times 10 = 110 \quad 110 \div 11 = 10$$

12

10



$$10 \times 12 = 120 \quad 120 \div 10 = 12$$

$$12 \times 10 = 120 \quad 120 \div 12 = 10$$

1

11



$$11 \times 1 = 11 \quad 11 \div 11 = 1$$

$$1 \times 11 = 11 \quad 11 \div 1 = 11$$

2

11

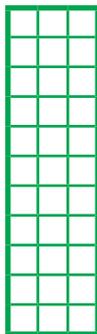


$$11 \times 2 = 22 \quad 22 \div 11 = 2$$

$$2 \times 11 = 22 \quad 22 \div 2 = 11$$

3

11

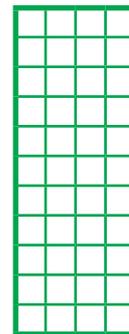


$$11 \times 3 = 33 \quad 33 \div 11 = 3$$

$$3 \times 11 = 33 \quad 33 \div 3 = 11$$

4

11

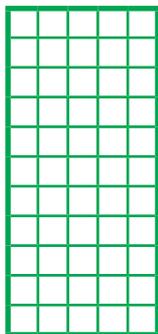


$$11 \times 4 = 44 \quad 44 \div 11 = 4$$

$$4 \times 11 = 44 \quad 44 \div 4 = 11$$

5

11

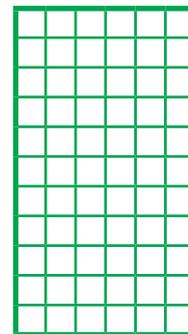


$$11 \times 5 = 55 \quad 55 \div 11 = 5$$

$$5 \times 11 = 55 \quad 55 \div 5 = 11$$

6

11

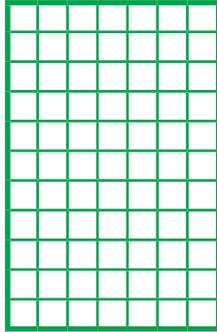


$$11 \times 6 = 66 \quad 66 \div 11 = 6$$

$$6 \times 11 = 66 \quad 66 \div 6 = 11$$

7

11

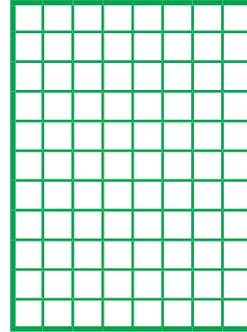


$$11 \times 7 = 77 \quad 77 \div 11 = 7$$

$$7 \times 11 = 77 \quad 77 \div 7 = 11$$

8

11

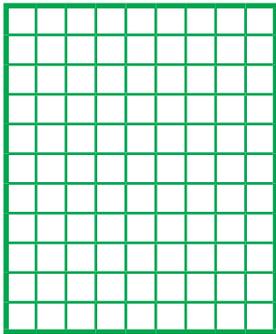


$$11 \times 8 = 88 \quad 88 \div 11 = 8$$

$$8 \times 11 = 88 \quad 88 \div 8 = 11$$

9

11

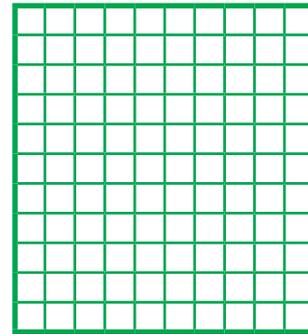


$$11 \times 9 = 99 \quad 99 \div 11 = 9$$

$$9 \times 11 = 99 \quad 99 \div 9 = 11$$

10

11

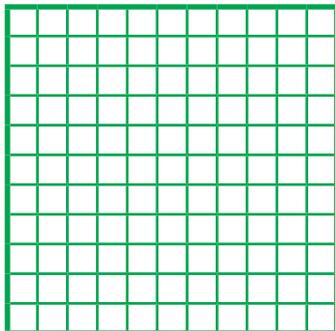


$$11 \times 10 = 110 \quad 110 \div 11 = 10$$

$$10 \times 11 = 110 \quad 110 \div 10 = 11$$

11

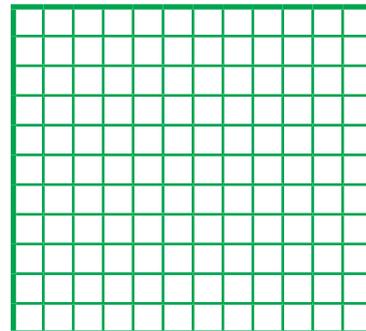
11



$$11 \times 11 = 121 \quad 121 \div 11 = 11$$

12

11

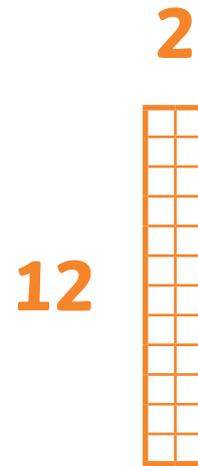


$$11 \times 12 = 132 \quad 132 \div 11 = 12$$

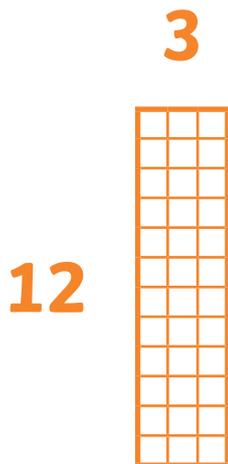
$$12 \times 11 = 132 \quad 132 \div 12 = 11$$



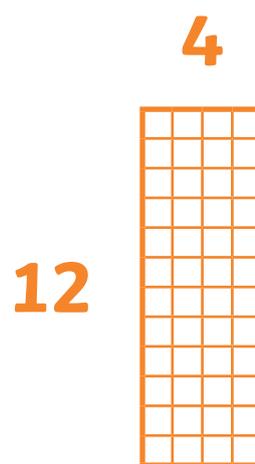
$12 \times 1 = 12$ $12 \div 12 = 1$
 $1 \times 12 = 12$ $12 \div 1 = 12$



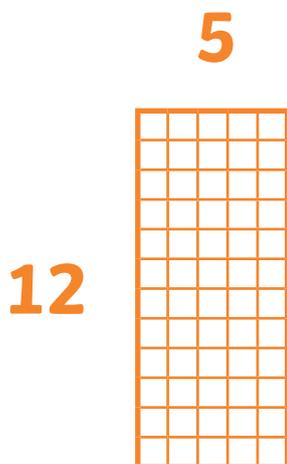
$12 \times 2 = 24$ $24 \div 12 = 2$
 $2 \times 12 = 24$ $24 \div 2 = 12$



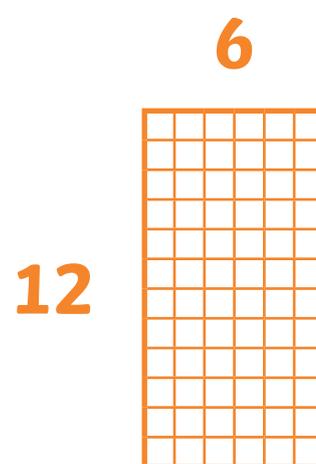
$12 \times 3 = 36$ $36 \div 12 = 3$
 $3 \times 12 = 36$ $36 \div 3 = 12$



$12 \times 4 = 48$ $48 \div 12 = 4$
 $4 \times 12 = 48$ $48 \div 4 = 12$



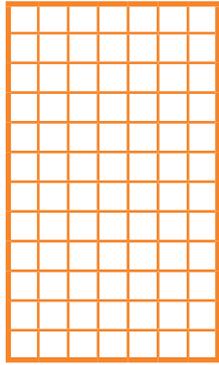
$12 \times 5 = 60$ $60 \div 12 = 5$
 $5 \times 12 = 60$ $60 \div 5 = 12$



$12 \times 6 = 72$ $72 \div 12 = 6$
 $6 \times 12 = 72$ $72 \div 6 = 12$

7

12

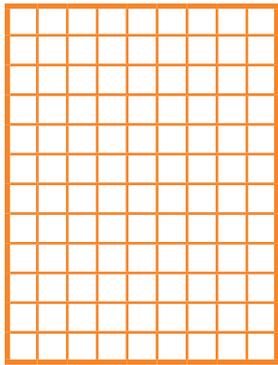


$$12 \times 7 = 84 \quad 84 \div 12 = 7$$

$$7 \times 12 = 84 \quad 84 \div 7 = 12$$

9

12

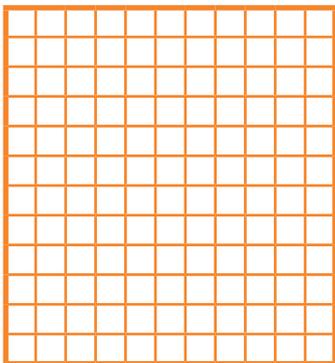


$$12 \times 9 = 108 \quad 108 \div 12 = 9$$

$$9 \times 12 = 108 \quad 108 \div 9 = 12$$

11

12

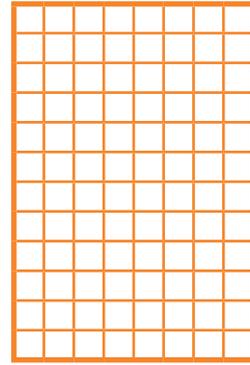


$$12 \times 11 = 132 \quad 132 \div 12 = 11$$

$$11 \times 12 = 132 \quad 132 \div 11 = 12$$

8

12

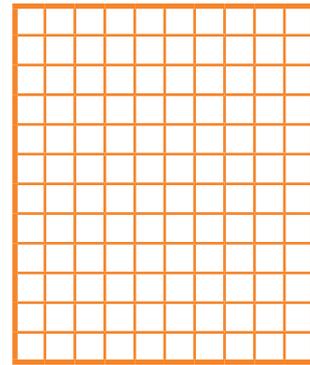


$$12 \times 8 = 96 \quad 96 \div 12 = 8$$

$$8 \times 12 = 96 \quad 96 \div 8 = 12$$

10

12

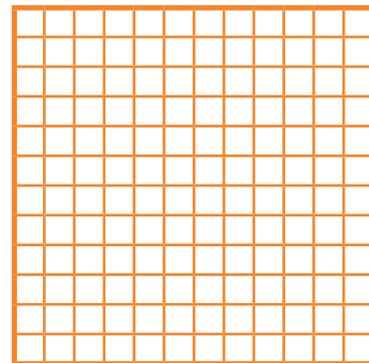


$$12 \times 10 = 120 \quad 120 \div 12 = 10$$

$$10 \times 12 = 120 \quad 120 \div 10 = 12$$

12

12



$$12 \times 12 = 144 \quad 144 \div 12 = 12$$