

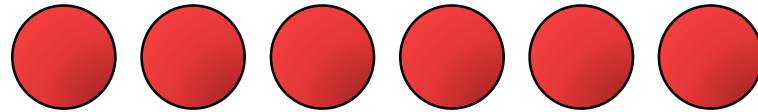
# FACTORS



GET READY



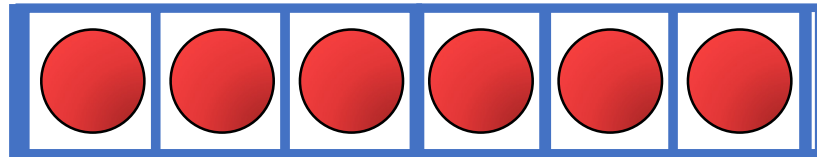
- 1) How many different ways can you put these counters into equal groups?



2)  $4 \times \underline{\quad} = 32$

3)  $7 \times \underline{\quad} = 42$

- 1) How many different ways can you put these counters into equal groups?



1 group of 6

3 groups of 2

2 groups of 3

6 groups of 1

2)  $4 \times \underline{8} = 32$

3)  $7 \times \underline{6} = 42$

LET'S LEARN



Which of these numbers are factors of 14?

1

0.5

14

7

28

2

3

Have a think



1

7

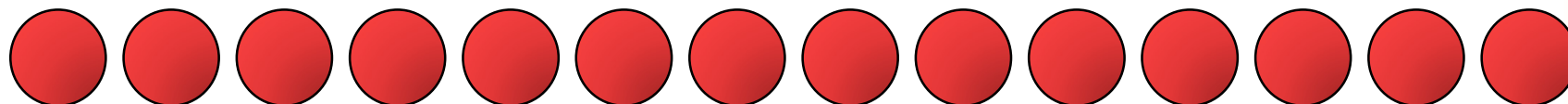
0.5

14

28

2

3

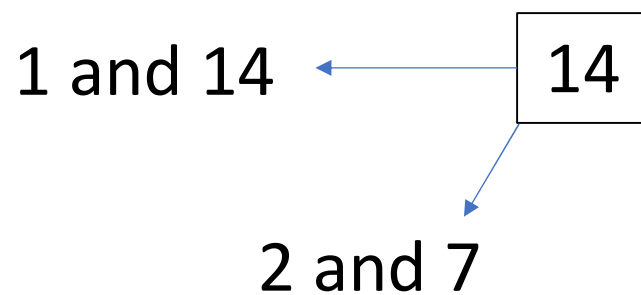
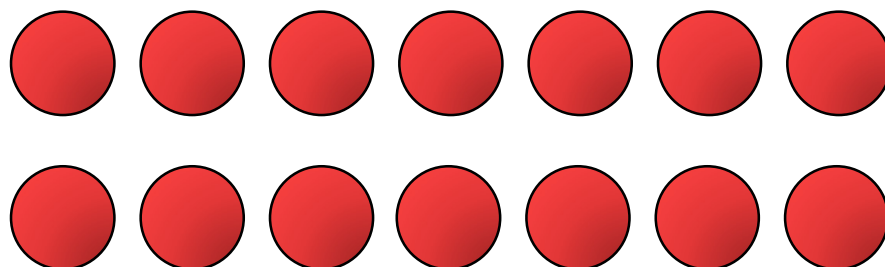


1 and 14






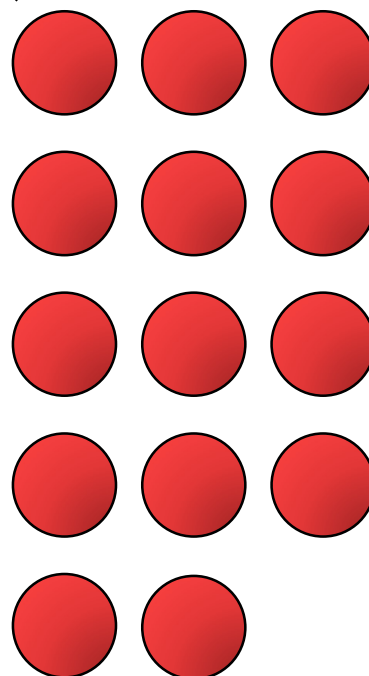
14

1      7      0.5  14      28      2      3





1      7      0.5       14      28       2      3 

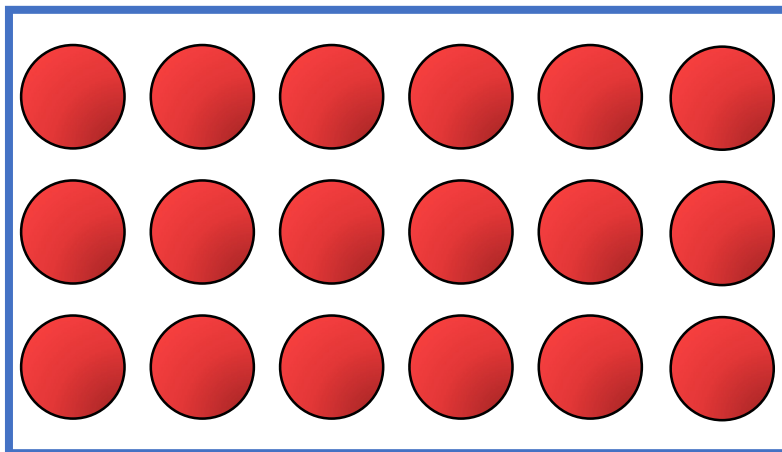


1 and 14

14

2 and 7

Find all the factors of 18  
How do you know when you've found them all?



$$1 \times 18$$

1 and 18

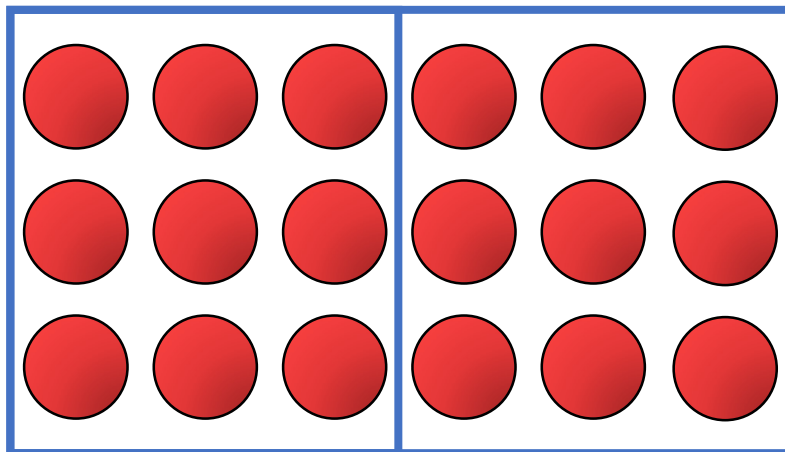


18

Have a think



Find all the factors of 18



$$1 \times 18$$

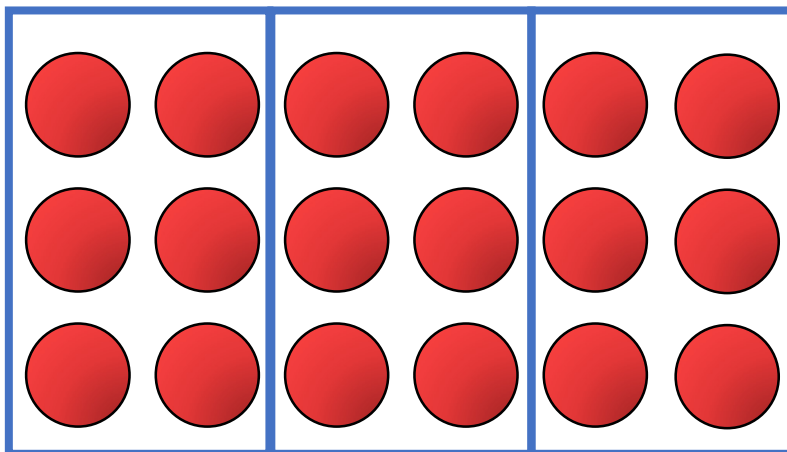
$$2 \times 9$$

1 and 18

18

2 and 9

Find all the factors of 18

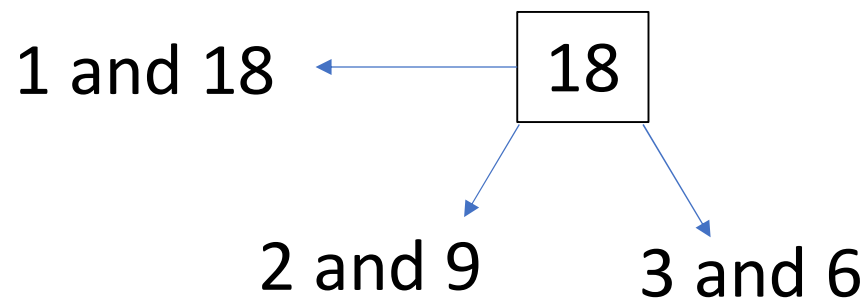


$$1 \times 18$$

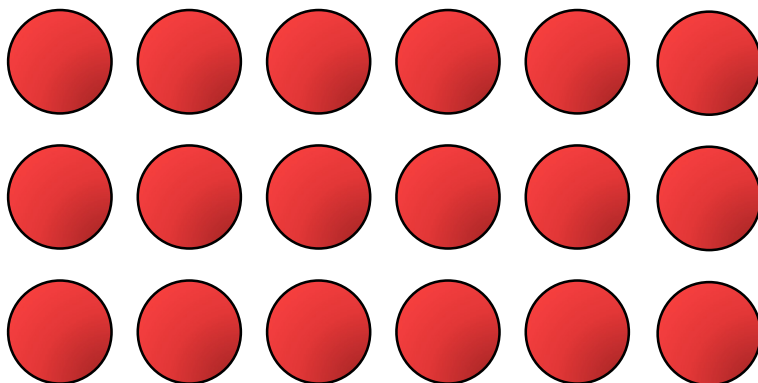
$$2 \times 9$$

$$3 \times 6$$

$$4 \times$$



Find all the factors of 18

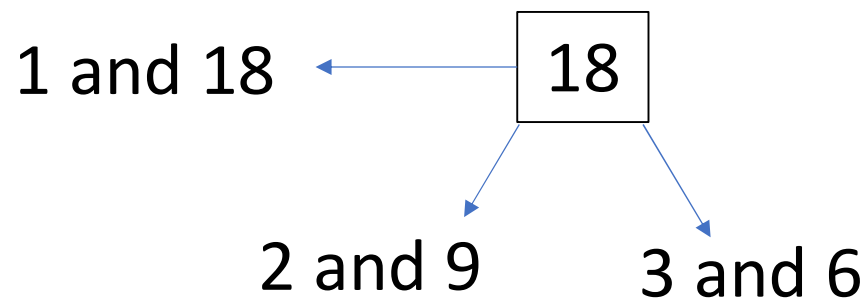


$$1 \times 18$$

$$2 \times 9$$

$$3 \times 6$$

~~$$4 \times$$~~



1, 2, 3, 6, 9, 18

**YOUR TURN**

Have a go at questions  
1 - 4 on the worksheet



Alex is thinking of a number between 30 and 40  
It only has two factors.



What could Alex's number be?

31	32	33	34	35	36	37	38	39

Prime numbers only have 2 factors: 1 and themselves.


Have a think



Is 5 a factor of 162? 

$$162 \div 5$$

Numbers in the 5 times table end in 0 and 5

Is 3 a factor of 354? 

$$354 \div 3 \quad 3 + 5 + 4 = 12 \div 3 = 4$$

If the sum of the digits is divisible by 3 then  
the number will be divisible by 3

Have a think



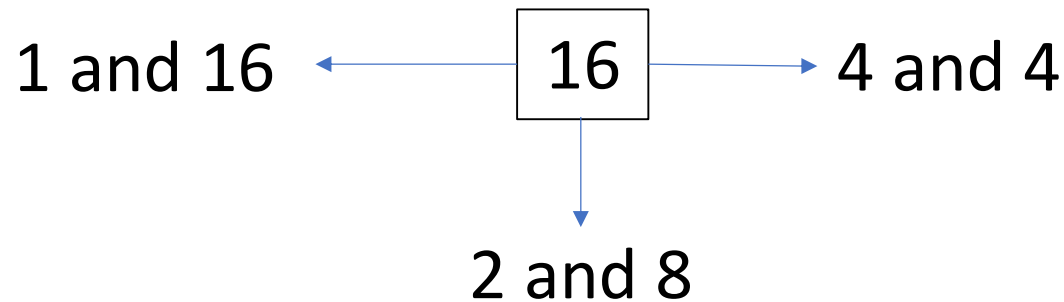


16 is a square number

Have a think



The number 16 has 6 factors.



1, 2, 4, 4, 8, 16

1, 2, 4, 8, 16

YOUR TURN

Have a go at rest of the  
worksheet

