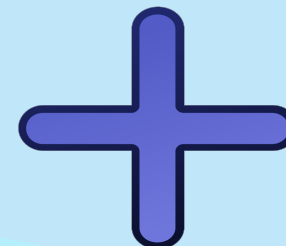


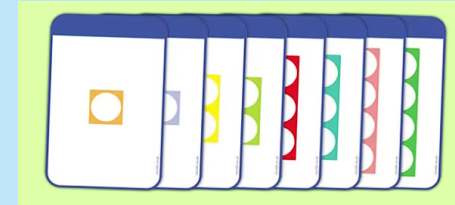
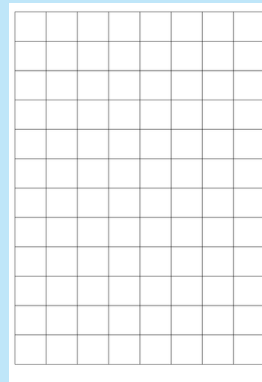
LO: To represent and use number bonds and their facts to 20.



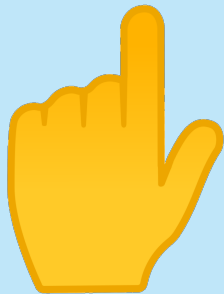
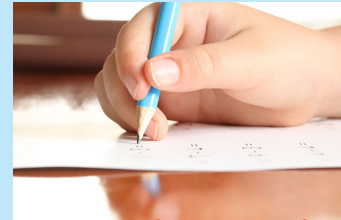
LO: To represent and use number bonds and their facts to 20.



You will need...



<https://mathsbot.com/manipulatives/numberFrames>



squared paper, numicon cards and a writing pencil

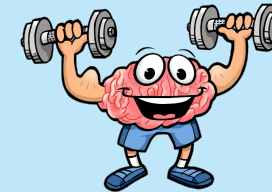


When you add 10 to
a number
the ones digit
stays
the same and the
tens
digit increases
by one!



Lets warm up our brains!

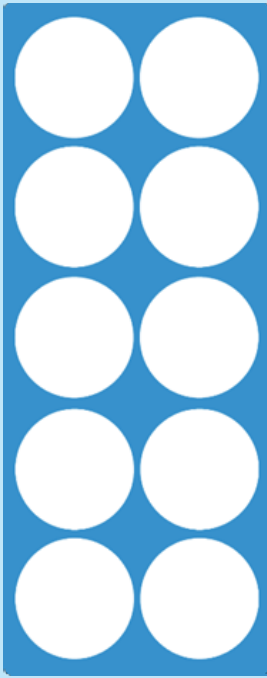
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Lets use the 100
square to explore
what happens to a
number when you add
10!

<https://www.topmarks.co.uk/learning-to-count/paint-the-squares>





10



3



LO: To represent and use number bonds and their facts to 20.

What do
you notice?



Number bonds to 10



$0 + 10 = 10$

$1 + 9 = 10$

$2 + 8 = 10$

$3 + 7 = 10$

$4 + 6 = 10$

$5 + 5 = 10$

$10 + 0 = 10$

$9 + 1 = 10$

$8 + 2 = 10$

$7 + 3 = 10$

$6 + 4 = 10$

$5 + 5 = 10$

Number bonds to 20



$0 + 20 = 20$

$1 + 19 = 20$

$2 + 18 = 20$

$3 + 17 = 20$

$4 + 16 = 20$

$5 + 15 = 20$

$6 + 14 = 20$

$7 + 13 = 20$

$8 + 12 = 20$

$9 + 11 = 20$

$10 + 10 = 20$

$11 + 9 = 20$

$12 + 8 = 20$

$13 + 7 = 20$

$14 + 6 = 20$

$15 + 5 = 20$

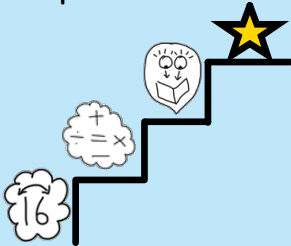
$16 + 4 = 20$

$17 + 3 = 20$

$18 + 2 = 20$

$19 + 1 = 20$

Steps to success



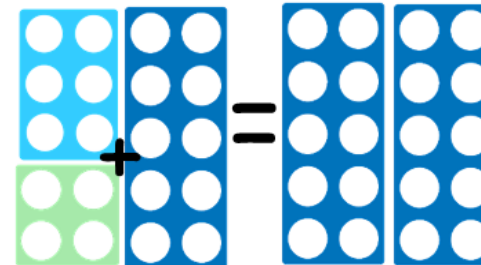
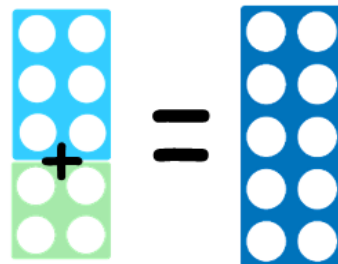
LO: To represent and use number bonds and their facts to 20.



Today we are going to be **Maths Magicians** and turn number bonds to 10 into number bonds to 20!

What do you notice?

$$6 + 4 = 10 \quad \text{so} \quad 6 + 14 = 20$$





LO: To represent and use number bonds and their facts to 20.

20 is **10 more** than 10.



When we change a number bond to 10 into a number bond to 20, we need to **add 10 more** to one of the numbers, making it a 2 digit number

$$7 + 3 = 10 \quad \text{so} \quad 7 + 13 = 20$$

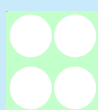
OR

$$13 + 7 = 20$$

$$7 + 3 = 10 \quad \text{so} \quad 17 + 3 = 20$$

$$3 + 17 = 20$$

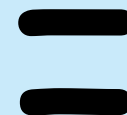




4



6



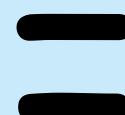
10



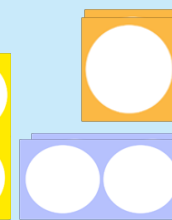
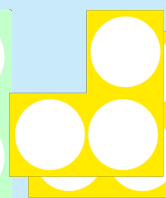
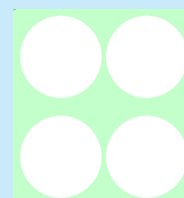
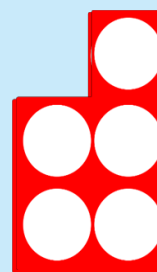
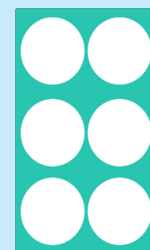
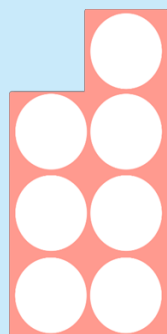
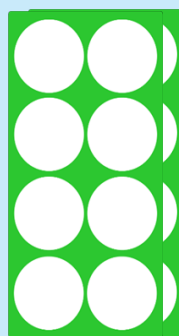
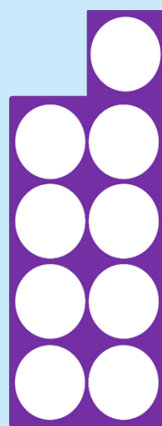
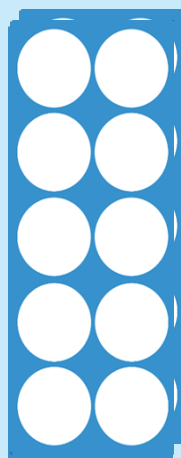
14



6



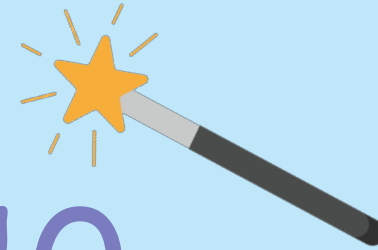
20





LO: To represent and use number bonds and their facts to 20.

Lets have a go at being Maths magicians!



Turn the number bonds to 10 in to number bonds to 20!



$$2 + 8 = 10$$

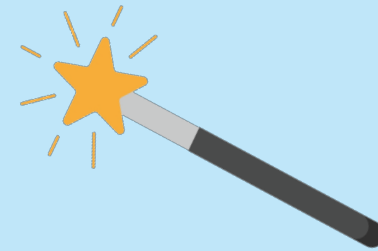
$$9 + 1 = 10$$

$$5 + 5 = 10$$



LO: To represent and use number bonds and their facts to 20.

Lets have a go at being Maths
magicians!



Turn this into a number
bond to 20!

$$9 + 1 = 10$$

$$9 + 11 = 20$$

$$19 + 1 = 20$$

OR

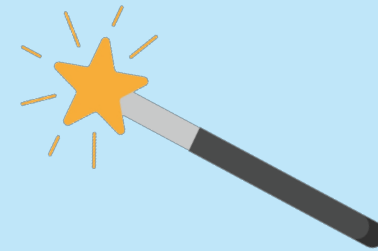
$$11 + 9 = 20$$

$$1 + 19 = 20$$



LO: To represent and use number bonds and their facts to 20.

Lets have a go at being Maths magicians!



Turn this into a number bond to 20!

$$2 + 8 = 10$$

$$2 + 18 = 20$$

$$12 + 8 = 20$$

OR

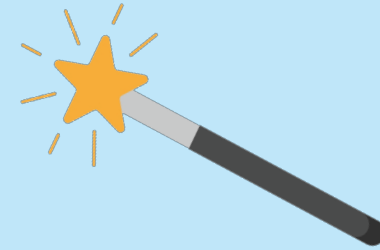
$$18 + 2 = 20$$

$$8 + 12 = 20$$



LO: To represent and use number bonds and their facts to 20.

Lets have a go at being Maths
magicians!



Turn this into a number
bond to 20!

$$5 + 5 = 10$$

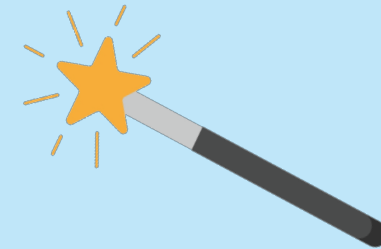
$$5 + 15 = 20 \quad \text{OR} \quad 15 + 5 = 20$$



LO: To represent and use number bonds and their facts to 20.

Lets have a go at being Maths magicians!

How did you do?



$2 + 8 = 10$	$9 + 1 = 10$	$5 + 5 = 10$
$12 + 8 = 20$	$19 + 1 = 20$	$5 + 15 = 20$
$2 + 18 = 20$	$9 + 11 = 20$	Or
Or	Or	$15 + 5 = 20$
$8 + 12 = 20$	$1 + 19 = 20$	
$18 + 2 = 20$	$11 + 9 = 20$	



