

## Dividing by 2

Discover



- i** a) 8 players practise in pairs.

How many groups of 2 are there?

$$8 \div 2 = \square$$

- b)

I worked it out using  $4 \times 2 = 8$   
from the 2 times-table.

Explain how Flo used that number fact to solve the problem.



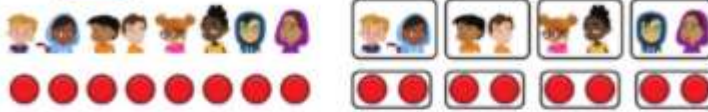
## Share

a)



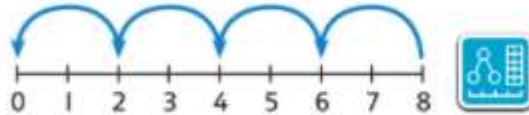
I used a drawing to help me.

I used the 2 times-table to help me.



8 players make 4 pairs.

Keep subtracting 2 from 8. You can subtract it 4 times.



$$8 \div 2 = 4$$

There are 4 groups of 2.

b) There are 8 players. There are 2 players in each group.



The drawing reminds me that 4 groups of 2 is 8. So  $8 \div 2 = 4$ .

$$1 \times 2 = 2$$

$$2 \times 2 = 4$$

$$3 \times 2 = 6$$

$$4 \times 2 = 8$$

$$5 \times 2 = 10$$

$$6 \times 2 = 12$$

$$7 \times 2 = 14$$

$$8 \times 2 = 16$$

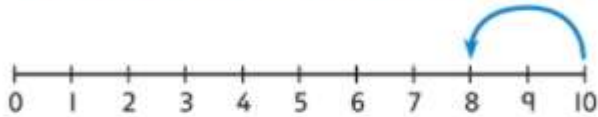
$$9 \times 2 = 18$$

## Think together



- 1 2 more players want to join in.

How many groups of 2 can be made now?

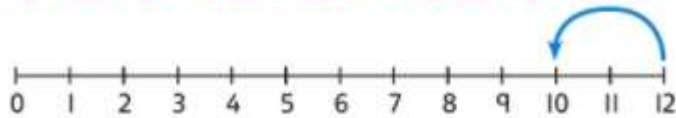


$$5 \times 2 = 10$$

$$\text{So } 10 \div 2 = \square .$$

- 2 12 players are now on the court.

How many groups of 2 can these players make?



$$\square \times 2 = \square \text{ so } 12 \div 2 = \square .$$

What if there were 14 players, 16 players or 18 players?

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- 3 Every 2 players can be paired up for practising tennis. On a 100 square, colour the numbers that can be divided by 2 or use counters to mark them.

Did you find a pattern?

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



What do you notice about which columns the numbers are in?