Year 2: Doubles

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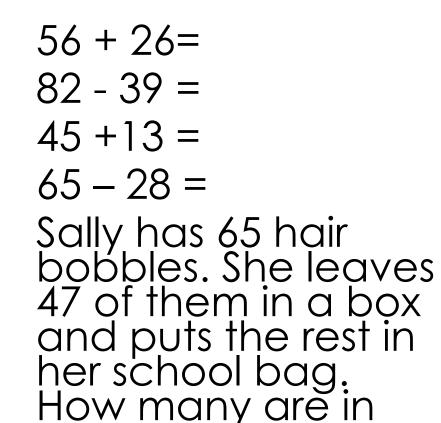
In our lesson today we will learn all about doubles. Knowing your doubles to 20 is an important key to help you with your addition and subtraction as well as multiplication and division.

Maths: 05.02.21

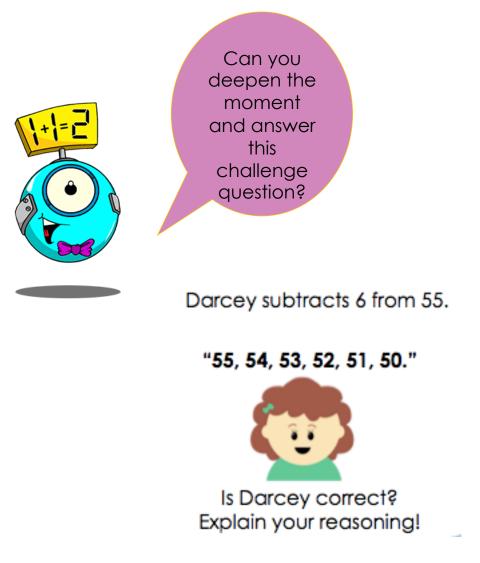




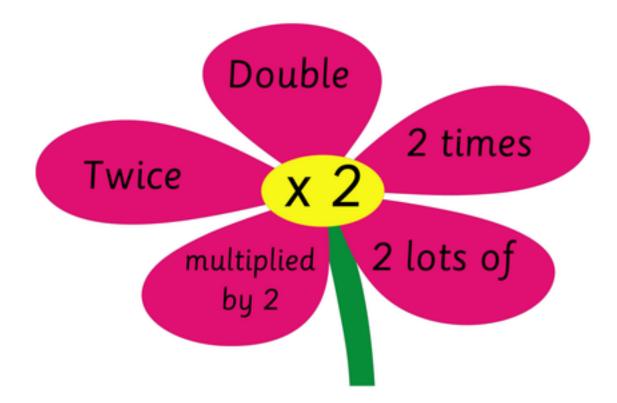
Revision



her school bag?

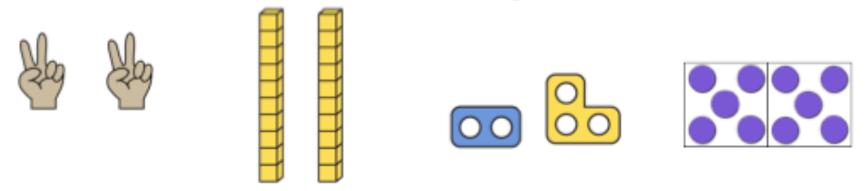


Vocabulary



Anchor Task

Which representation doesn't belong?



Explain your answer.

Anchor Task

Which representation doesn't belong?

Explain your answer.

The Numicon shapes representation doesn't belong as it doesn't show pairs of representations that are the same.

Recap

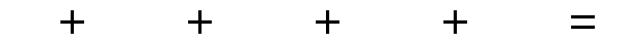


How many doughnuts?

There are <u>doughnuts</u> in a row.

There are <u>rows</u>.

Х



Review



How many doughnuts?

There are 2 doughnuts in a row. There are 5 rows. 2_+ 2_+ 2_+ 2_+ 2_+ 2_- =102 _ 10



If there are 5 marbles in each jar, how many marbles are there altogether?



5 + 5 =

Explore

If there are 5 marbles in each jar, how many marbles are there altogether



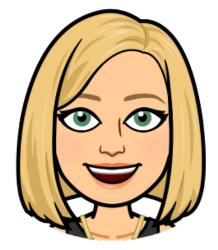
5 + 5 = 10

What do we call it when we add two equal groups?

Explore

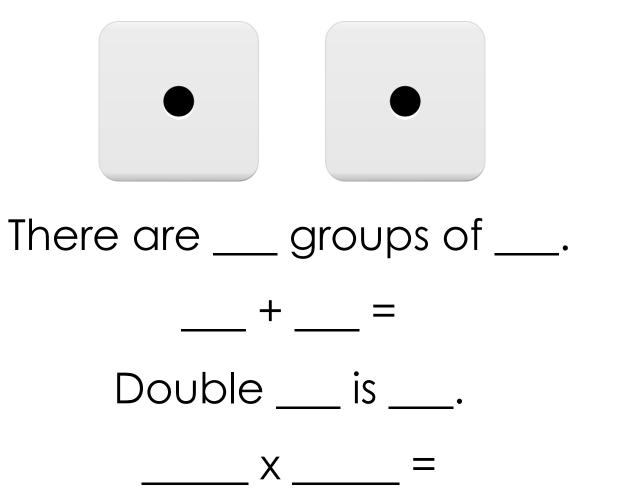
We call this doubling. To find a double of a number, we add the same number to itself. For example, double of 2 is 2 + 2 = 4.

Let's find out more...





Double the dots.



What happens if I double the dots? Let's use the sentence stems to help us.



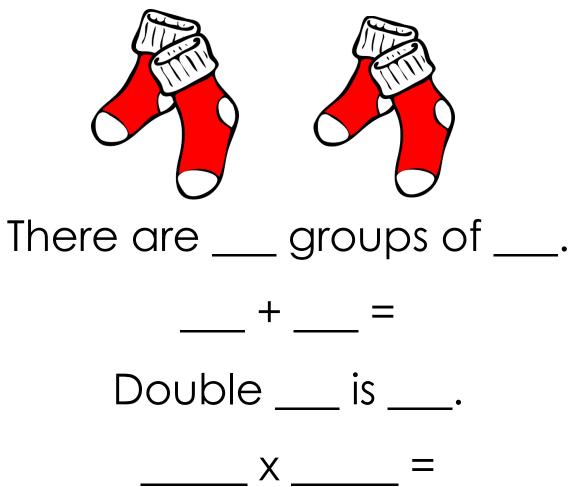
Double the dots.



There are 2 groups of 1. 1 + 1 = 2Double 1 is 2. $2 \times 1 = 2$

Explore

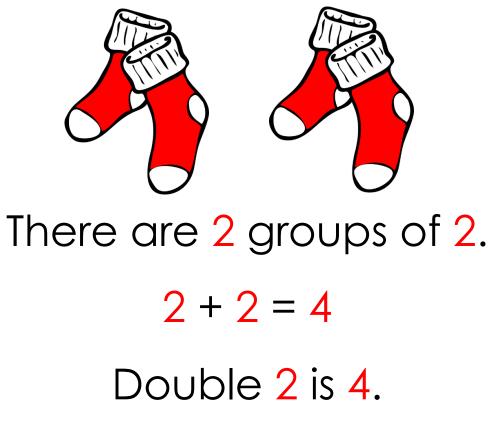
Double the socks.



What happens if I double the dots? Let's use the sentence stems to help us.



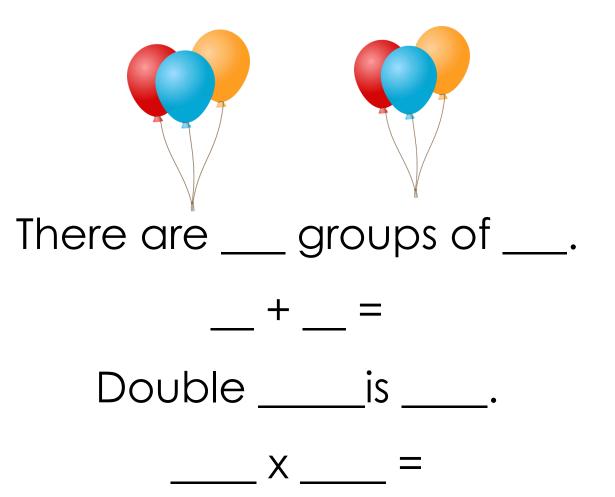
Double the socks.



 $2 \times 2 = 4$

Explore

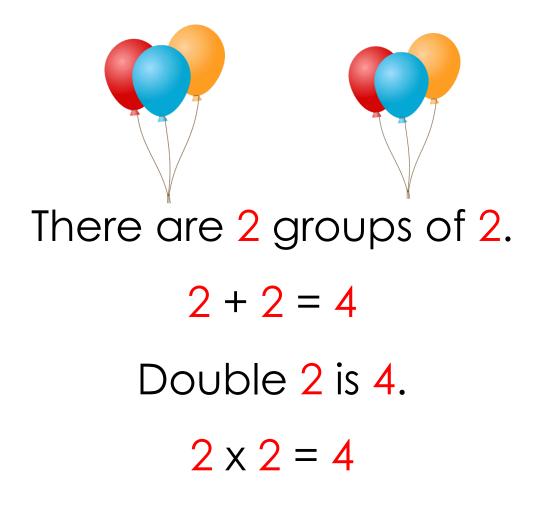
Double the dots.



What happens if I double the dots? Let's use the sentence stems to help us.



Double the balloons.



Your Turn

Complete the table.

Build	Represent	Add	Double
		1+1=	Double 1 is
		2 + 2 =	Double 2 is
		3 + 3 =	Double 3 is
		4 + 4 =	Double 4 is
		5 + 5 =	Double 5 is

Review

Build	Represent	Add	Double
		1 + 1 = <mark>2</mark>	Double 1 is 2
		2 + 2 = 4	Double 2 is 4
		3 + 3 = 6	Double 3 is 6
		4 + 4 = 8	Double 4 is 8
		5 + 5= 10	Double 5 is 10

Guided Practice

1 + 1 = 26 + 6 =2 + 2 = 47 + 7 =3 + 3 =8 + 8 =4 + 4 =9 + 9 =5 + 5 =10 + 10 =



Complete the calculations and discuss what you notice with your grown up. All the totals to these calculations have something in common. Can you spot it?

Guided Practice

1 + 1 = 2 2 + 2 = 4 3 + 3 = 6 4 + 4 = 85 + 5 = 10

- **6 + 6 = 12**
- 7 + 7 = 14
- 8 + 8 = 16
- 9 + 9 = 18
- 10 + 10 = 20

All the totals are the numbers we say when we count in twos. They are all even numbers.



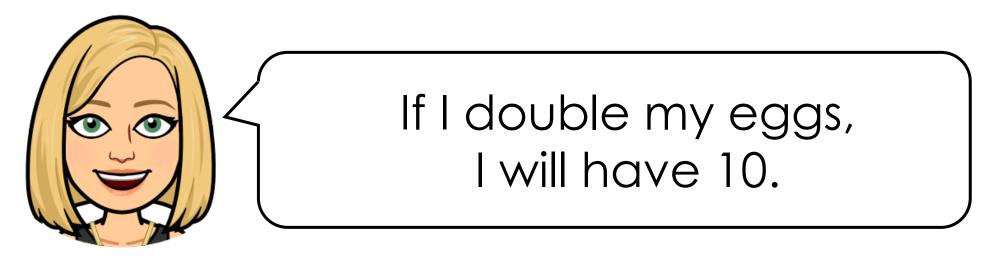
Explore

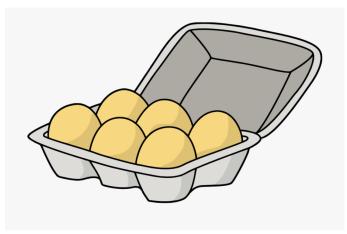
$2 \times 1 = 2$ $2 \times 6 = 12$ $2 \times 2 = 4$ $2 \times 7 = 14$ $2 \times 3 = 6$ $2 \times 4 = 8$ $2 \times 9 = 18$ $2 \times 5 = 10$ $2 \times 10 = 20$

As we are adding 2 numbers that are the same, we could also rewrite these as multiplications. There are 2 lots of each number so that can be written as 2 x

Reasoning

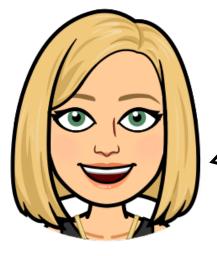
True or False?





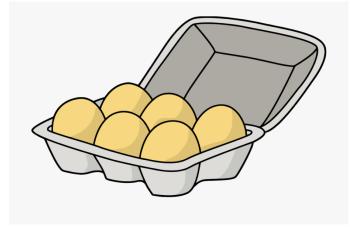
Reasoning

True or False?



If I double my eggs, I will have 10.

False. Double 6 is 12. Double 5 is 10.



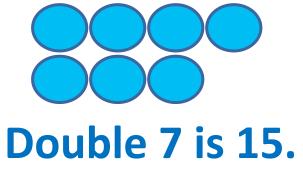
Reasoning

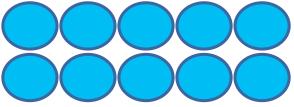
Which is the odd one out? Explain why.



Double 3 is 6.

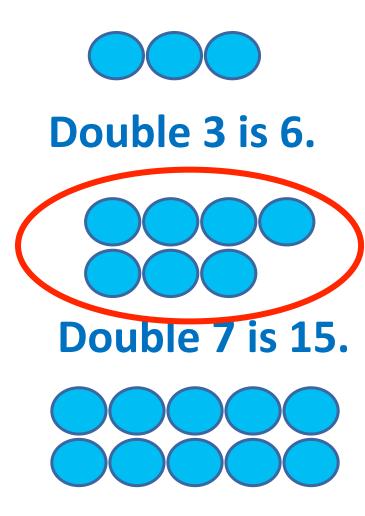








Which is the odd one out?



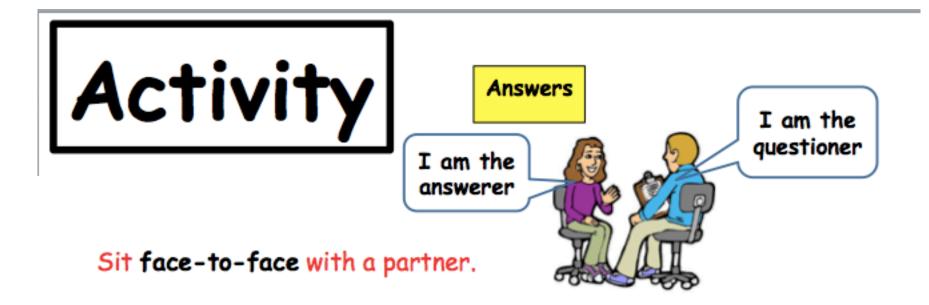
Double 7 is 14. All doubles are even numbers.

Your Task

Your task today is to learn your doubles by heart. You must be able to recall them in any order so ask your grown up or brothers or sisters to test you. Have a look at the activities on the next page for ideas of how to practise your doubles. I've also added a game you could use to help you.

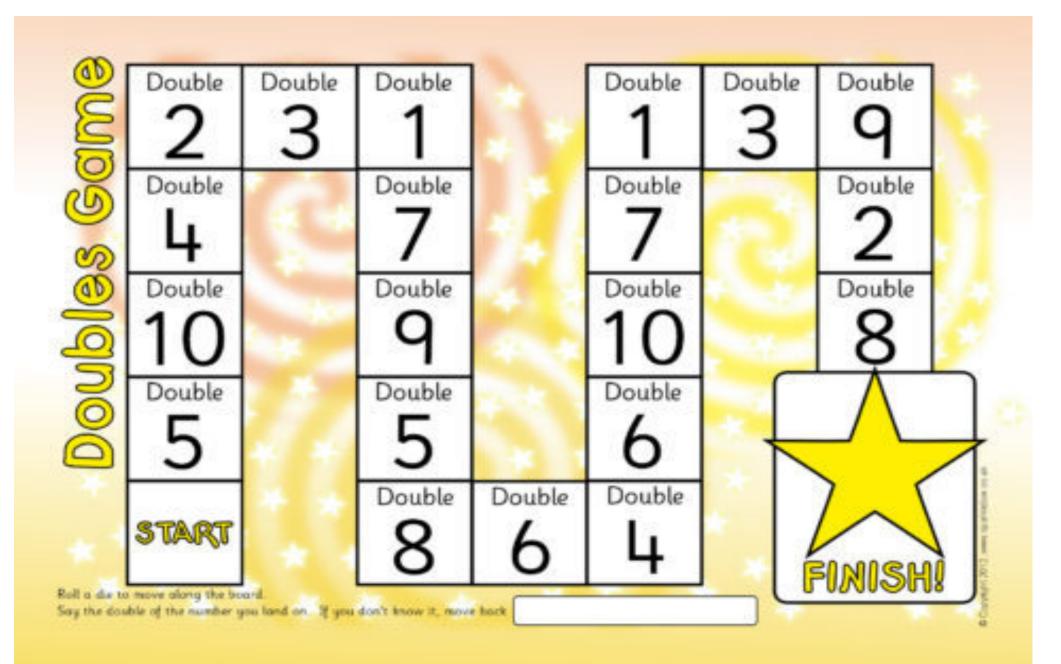
> If your finding it tricky to remember your doubles, use this video to help you.

https://www.youtube.com/watch?v=e-KTHfrFit0



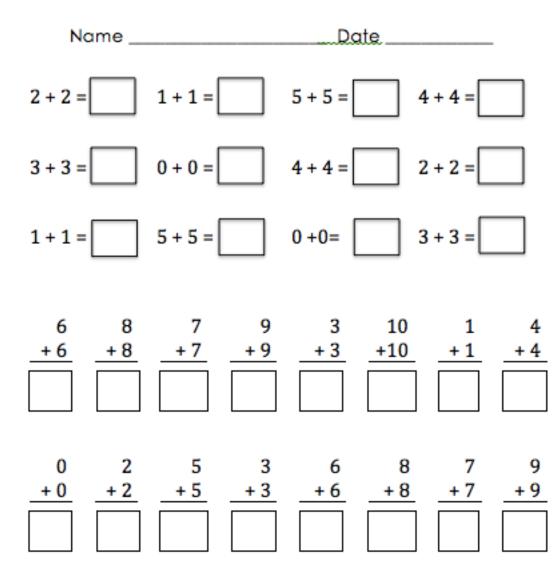
The questioner must fire questions at the answerer by asking them to double different numbers... e.g. 'What is double 7?' If the answerer doesn't know the answer (or they say the wrong answer), the questioner must tell them the answer.

Swap seats (the questioner becomes the answerer) after 2 minutes.



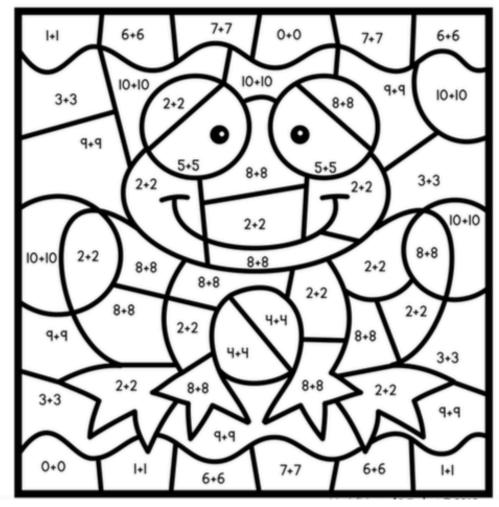
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Adding Doubles



Directions: Color the picture by matching the sums of the doubles facts to the colors below.





How would you double a 2 digit number?

To double a larger number, you need to partition it into tens and ones first.

Example: double 24 24 = 20 + 4

Once you have partitioned the number, double the tens and the ones separately and then recombine.

Double 4 = 8Double 20 = 4040 + 8 = 48

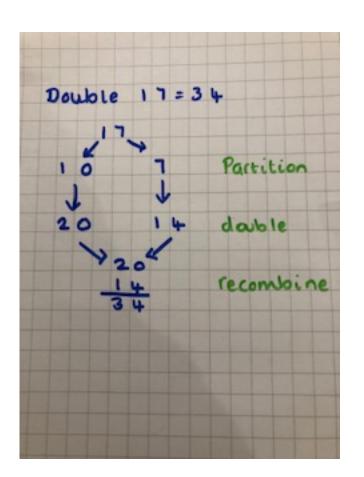
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Example: double 15
15 = 10 + 5
Double 5 = 10
Double 10 = 20
20 + 10 = 30
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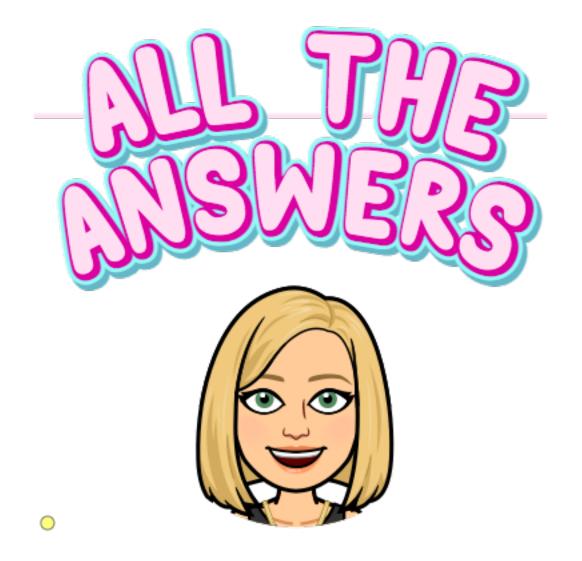
Watch this video to see this method in action and then complete the calculations on the next page: <u>https://www.youtube.com/watch?v=Ac8jduvpr0Q</u>

Double 23 Double 41 Double 25 Double 19 Double 34 Double 28 Double 45 Double 32 Double 46 Double 16

Double 43 Double 22 Double 36 Double 13 Double 44







Revision

56 + 26= 82 82 - 39 = 4345 + 13 = 5865 - 28 = 37Sally has 65 hair bobbles. She leaves 47 of them in a box and puts the rest in her school bag. How many are in her school bag? 65 - 47 = 18

Darcey subtracts 6 from 55.

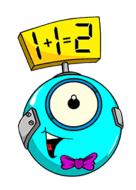
"55, 54, 53, 52, 51, 50."



She is not correct. When she counted back she included 55. She should have placed 55 in her head and then started to count. 55 - 6 = 49

- Double 23 = 46
- Double 41 = 82
- Double 25 = 50
- Double 19 = 38
- Double 34 = 64
- Double 28 = 56
- Double 45 = 90
- Double 32 = 64
- Double 46 = 92
- Double 16 = 32

Double 43 = 86Double 22 = 44Double 36 = 72Double 13 = 26Double 44 = 88



What do you notice about all the answers?