

Maths

Multiplication and Division

Maths | Multiplication and Division | Multiplication | Lesson 8 of 9: Doubles

Need a coherently planned sequence of lessons to complement this resource?

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See our Multiplication and Division Steps to Progression document.

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Doubles





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Aim

• To recall and use multiplication facts for the 10 times table.

Success Criteria

- I can count in 10s.
- I can spot patterns within multiples of 10.
- I can recall multiplication facts up to 12×10 .

Use known doubles facts to complete the missing numbers.



Doubles We Know

In year 1, we learnt these doubles.

double 1 is 2 double 2 is 4double 3 is 6double 4 is 8 double **5** is **10** double 6 is 12double 7 is 14 double **8** is **16** double 9 is 18 double **10** is **20**

What do you notice?

Doubling a whole number always makes an even number.

Why does this happen?



We can write doubles as addition calculations.

1	+	1	= :	2	
2	+	2	=	4	
3	+	3	=	6	
4	+	4	=	8	
5	+	5	=	10	
6	+	6	=	12	•
7	+	7	=	14	•
8	+	8	=	16	
9	+	9	=	18	8
10) -	+ 1	0	=	2

What do you notice?

Both the numbers being added are the same. These are called the **addends**.

Can you give your friend a tip for remembering these facts?



How many groups of dots are there on the ladybird?

Can you write a multiplication calculation to describe the ladybird?

How many aots are in

6 × 2 = 12

There are **2 groups of 6**. There are **six, two times**.

How many data are

This is the same as double 6. **Double 6 is 12.**

There are 12 dots altogether. 6 + 6 = 12

Write a multiplication calculation for each of these doubles. The calculations are from the 2 times table.



Two Equal Groups

Here are some other ways to represent doubles.



There are two equal parts. The whole is double one of the parts.



The bird is collecting twigs for its nest.



By the evening, it had twice as many. How many twigs did it have in the evening?

If we need to find **double** or **twice as many**, we can use facts from the 2 times table.

The bird has 14 twigs in the evening.



double 11 = double 10 + double 1

double 10 = 20

double 1 = 2

20 + 2 = 22 so double 11 is 22



double 12 = double 10 + double 2

double 10 =

double 2 =

20 + 4 = 24 so double 12 is 24



double 13 = double 10 + double 3

double 10 =

double 3 =

20 + 6 = 26 so double 13 is 26



double 14 = double 10 + double 4

double 10 =

double 4 =

20 + 8 = 28 so double 14 is 28



double 15 = double 10 + double 5

double 10 =

double 5 =

20 + 10 = 30 so double 15 is 30

Let's double numbers with 5 ones using partitioning.

Double 25



Double 5 = 10

Double 20 = 40

40 + 10 = 50 so double 25 is 50

Let's double numbers with 5 ones using partitioning.

Double 35





Double 30 = 60

Double 5 = 10

60 + 10 = 70 so double 35 is 70

Let's double multiples of 10 using place value counters and ten-frames.



There are 2 leaves with 8 ants on each leaf. How many ants altogether?

Draw a bar model.

Write a multiplication calculation with a factor of 2.

Use a known fact to solve the problem.



50

50

There are 50 ants in each anthill. How many ants are there in total?

Draw a bar model.

Write a multiplication calculation with a factor of 2.

Use a known fact to solve the problem.



There are 100 ants altogether.

Are these statements true or false? Explain how you know.



Doubles Matching Game



Diving into Mastery



Dive in by completing your own activity!

Doubles Fill in the missing numbers. 9 9 + 6 = 12 9 9 2 × 12 = Double 20 is equal to 20	le 10.	
35, twice is equal to = double 50 15 + 15 =	2. bout ver.	

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