

Multiply 4-digits by 2-digit

Chinese chanting

One nine is nine

Two nine is eighteen

Three nine is twenty-seven

Four nine is thirty - six

Five nine is forty-five

Six nine is fifty- four

Seven nine is sixty-three

Eight nine is seventy- two

Nine nine is eighty-one

Nine ten is ninety

Nine eleven is ninety-nine

Nine twelve is one hundred and eight

Why don't we chant Four NINES (plural)?

It helps us with **Commutativity**
What does commutative mean?

Commutativity is when 2 numbers can be added or multiplied & the same answer will be found no matter what order they are in.

 $1 \times 7 = 7$

$2 \times 7 = 14$

$3 \times 7 = 21$

$4 \times 7 = 28$

$5 \times 7 = 35$

$6 \times 7 = 42$

 $7 \times 7 = 49$

$8 \times 7 = 56$

$9 \times 7 = 63$

$10 \times 7 = 70$

$11 \times 7 = 77$

$12 \times 7 = 84$

Key vocabulary

Multiplication

Division

Digits

Multiples

Factors

Multiplicand

Multiplier

Product

Commutative

Product

x Multiplication Calculation x

product

$$5 \times 2 = 10$$

factor

factor

(no context)

x Multiplication Calculation x

product

$$5 \times 2 = 10$$

multiplicand

multiplier

(context)

Watch Mrs Hickman's teaching video here:

<https://youtu.be/peRRSuXpIKU>

TASK 1:

Work out the multiplications.

a) $4,284 \times 23$

b) $2,142 \times 46$

TASK 2:

Amir scores 4,680 points in a computer game for 12 games in a row.

How many points in TOTAL does Amir Score?

Whitney scores 2,512 points every game for 24 games.

How many points in TOTAL does Whitney Score?

Challenge:

Who scores more points? **How many more?**



Again, if you are finding these tough, why don't you try 2 digit x 2 digits. Make up your own. Use Long Multiplication. Check your answer using a calculator.

Answers coming up!

No peeking!

No Peeking Mister



ANSWERS

Work out the multiplications.

a) $4,284 \times 23$

b) $2,142 \times 46$

	4	2	8	4				2	1	4	2								
x			2	3				x			4	6							
1	2	8	5	2				1	2	8	5	2							
8	5	6	8	0				8	5	6	8	0							
9	8	5	3	2				9	8	5	3	2							
	,	,							,	,									

Amir scores 4,680 points in a computer game for 12 games in a row.

Whitney scores 2,512 points every game for 24 games.

Who scores more points?

Whitney

Amir: 56,160

Whitney: 60,288

How many more?

4,128