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)?

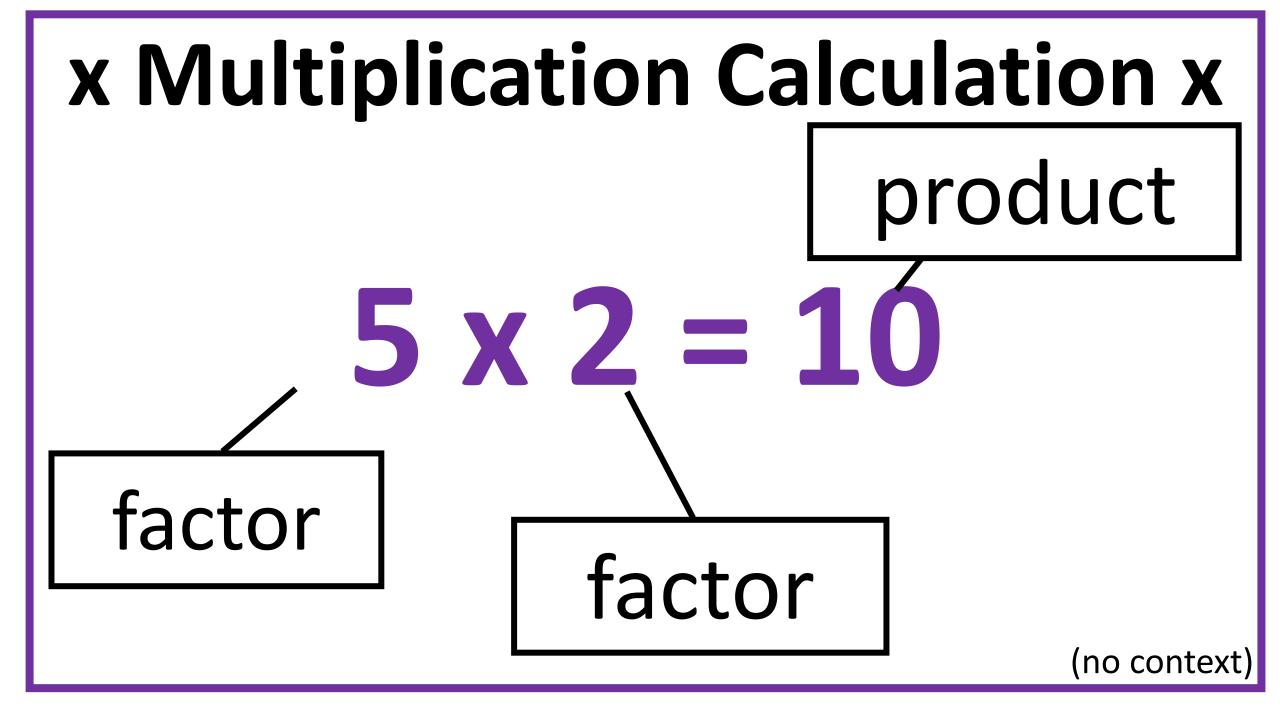
It helps us with **Commutativity** What does commutative mean?

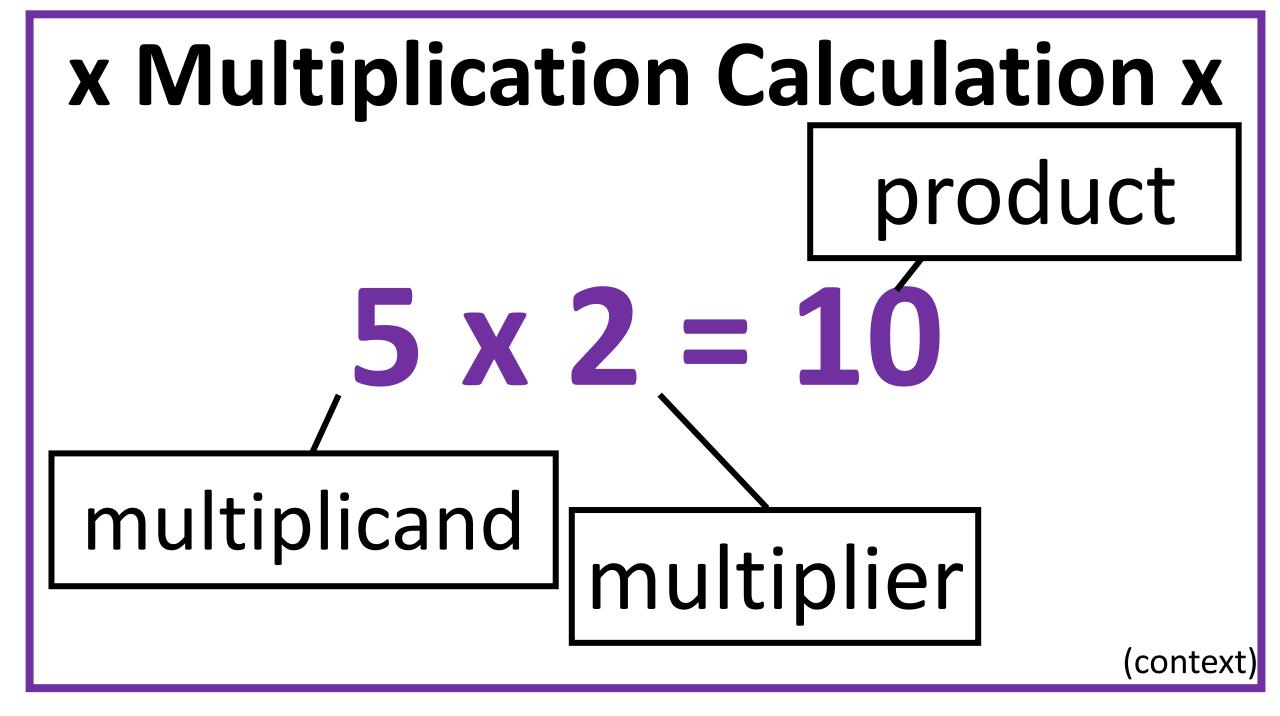
Commutativity is when 2 numbers can be added or multiplied & the same answer will be found no matter what order they are in.

 $7 \times 7 = 49$ $1 \times 7 = 7$ 8 × 7 = 56 $2 \times 7 = 14$ $9 \times 7 = 63$ $3 \times 7 = 21$ $10 \times 7 = 70$ $4 \times 7 = 28$ $11 \times 7 = 77$ $5 \times 7 = 35$ $12 \times 7 = 84$ $6 \times 7 = 42$

Key vocabulary

Multiplication Division Digits **Multiples** Factors Multiplicand Multiplier Product Commutative Product





Watch Mrs Hickman's teaching video here:

https://youtu.be/peRRSuXplKU

<u>TASK 1:</u>

Work out the multiplications.

a) 4,284 × 23 b) 2,142 × 46

<u>TASK 2:</u>

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!

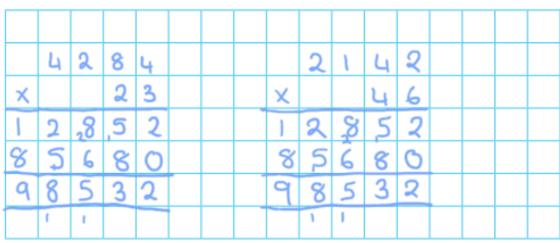


ANSWERS

Work out the multiplications.

a) 4,284 × 23

b) 2,142 × 46



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?

Amir: 56,160 Whitney: 60,288

How many more?

Whitney

4,128