

02.02.21

WALT: Explaining how to use the grid method

Vocabulary check

multiply

product

place value

partitioning

associative law

distributive law

commutative law

Watch and listen. Make some notes about how to use the grid method. What are the important things to remember?

$$234 \times 35$$

$$2164 \times 14$$

Using what we know

	200	10	5
30			
4			

215×34

Because I know $2 \times 3 = 6$, I also know...

POSTER COMPETITION

Make a poster to explain to **anyone** how to use grid method. What must they do? What are the important things to remember? What can they use to help them?

The best posters will be shared with everyone learning at home (if you are at home, don't forget to send us a picture of your poster!) and we will put the posters on our mathematicians board to help us.

Use it

For each pair of calculations, can you decide which will have the greater product **without completing the calculation?** Explain how you know.

a) 351×9 or 951×3

b) 1265×32 or 1232×45

c) 888×10 or 777×11



Prove it

Meera says 27×35 will give the same product as 37×25 because multiplication is commutative. Explain why she is wrong.

Complete and compare the grid for each calculation. What is the same? What is different? Can you use this to convince me why she is wrong?

Challenge: Can you find an example of a pair of calculations when swapping the ones digits still gives the same product? Can you give a rule for when this will always work?