#### Year 5 | Spring Term | Week 1 to 3 – Number: Multiplication & Division



## Multiply 4-digits by 1-digit

# Reasoning and Problem Solving



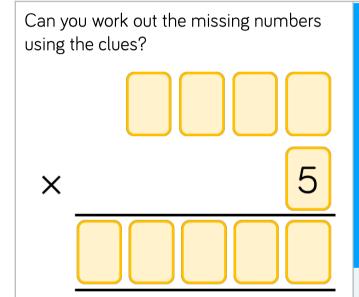
Alex calculated  $1,432 \times 4$ 

Here is her answer.

	Th	Н	Т	0
	1	4	3	2
×				4
	4	16	12	8

$$1,432 \times 4 = 416,128$$

Can you explain what Alex has done wrong?



- The 4 digits being multiplied by 5 are consecutive numbers.
- The first 2 digits of the product are the same.
- The fourth and fifth digits of the answer add to make the third.

#### Year 5 | Spring Term | Week 1 to 3 - Number: Multiplication & Division



## Multiply 2-digits (Area Model)

## Reasoning and Problem Solving



Eva says,



To multiply 23 by 57 I just need to calculate  $20 \times 50$  and  $3 \times 7$  and then add the totals.

What mistake has Eva made? Explain your answer.

Amir hasn't finished his calculation. Complete the missing information and record the calculation with an answer.

×	40	2
40	000 000 000 000	
6		000000

Farmer Ron has a field that measures 53 m long and 25 m wide.

Farmer Annie has a field that measures 52 m long and 26 m wide.

Dora thinks that they will have the same area because the numbers have only changed by one digit each.

Do you agree? Prove it.

17 ©White Rose Maths

#### Year 5 | Spring Term | Week 1 to 3 – Number: Multiplication & Division



## Multiply 2-digits by 2-digits

# Reasoning and Problem Solving



