05.02.21

WALT: Multiply a 2 digit number by 2 digit number

Vocabulary check

multiply
multiplicand
multiplier
product
place value
partitioning
associative law
distributive law
commutative law

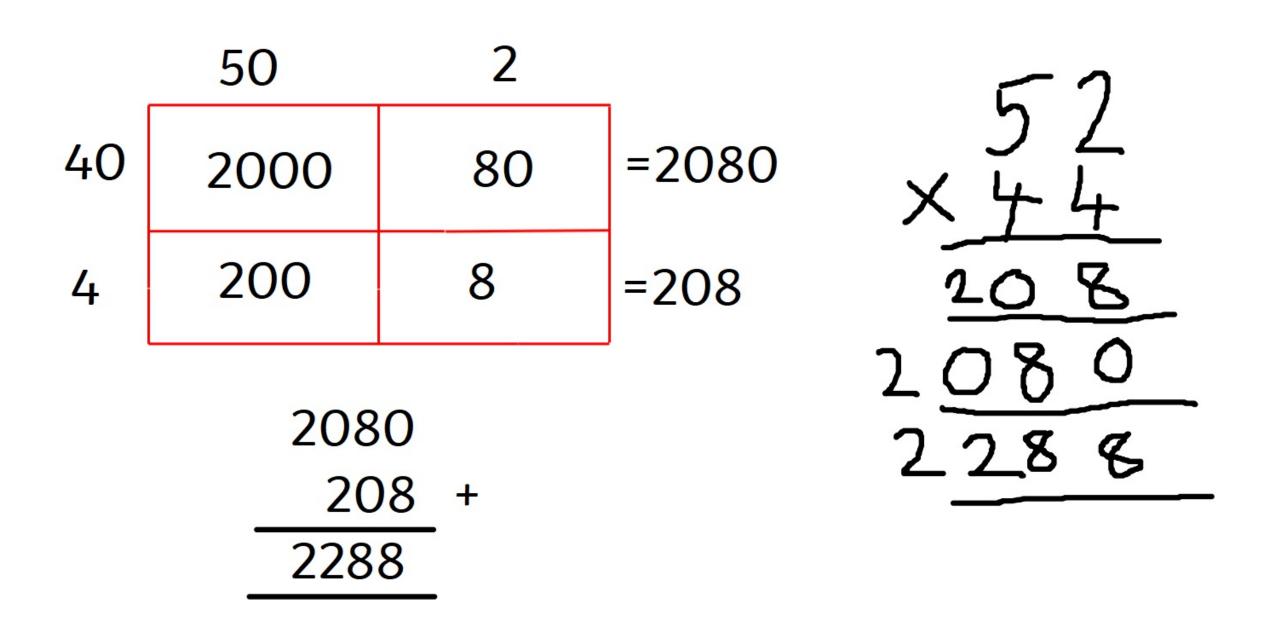
15 multiplicandx 2 multiplier30 product

Mrs Coote said, 'Multiplication isn't always commutative'.

Do you agree with Mrs Coote?

Convince me!

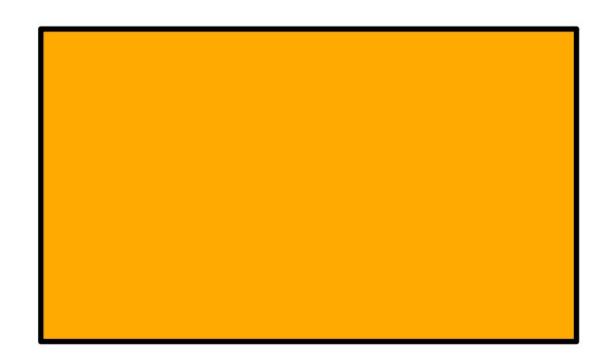
$$52 \times 44 =$$



What is the same? What is different?

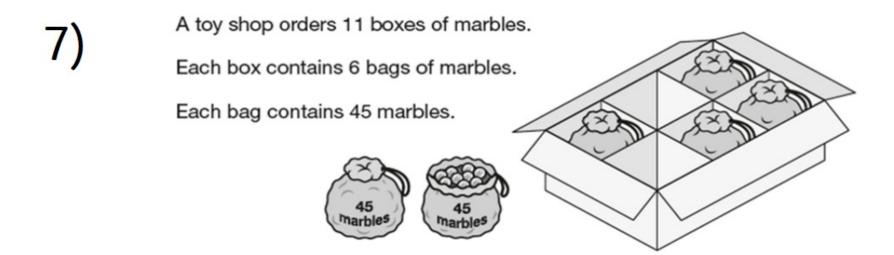
Hinge Question

Use your preferred method of multiplication to answer the question 37 \times 43 =



Use it

- 1) A factory sold beads in boxes, with 58 beads in each box. In one week, it sold 26 boxes of beads. How many beads were sold altogether?
- 2) Carrots come in packs of 18. The carrots are on average 12cm in length. Asda buys 88 packs of carrots. What is the total number of carrots that Asda purchased?
- 3) A factory fills 76 cans of drink in an hour. How many cans will be filled in 2 days?
- 4) There are 12 planks of wood. A plank of wood is 49cm long. How much wood is there in cm? Challenge: Can you convert this answer into m?
- 5) There is 75g in a bag of flour. A lorry transports 64 bags of flour. What is the product of flour is in the lorry in g? Challenge: Can you convert this answer into kg?
- 6) In a class, there are 30 children. Each child raises £24 for a charity. Can you calculate **mentally,** how much money the class raise for charity?

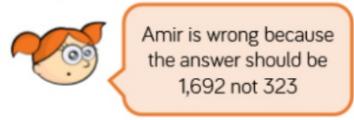


How many marbles does the shop order in total?

Prove it

If you didn't get to do this yesterday:

Alex says,



Who is correct?
What mistake has been made?

Amir has multiplied 47 by 36



		4	7
×		3	6
	2	8 4	2
	1	4 2	1
	3	2	3

Some more to try:

Without calculating, which calculation will have the greatest product. Explain how you know.

 378×7

 778×3

Explain the mistakes

63×27

Mistake 1

$$60 \times 20 = 1200$$

$$3 \times 7 = 21$$

$$|200 + 2| = |22|$$

Mistake 2

	20	7
60	120	420
3	60	21

120 + 420 + 60 + 21 = 621