Multiply Like a Pro!

Two digits? Three digits?
You got this!



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Today we will...

WE ARE LEARNING TO

- Multiply 2-digit by 2-digit numbers
- Multiply 3-digit by 2-digit numbers
- Use place value to explain steps

SUCCESS LOOKS LIKE

- ✔ I can line up digits by place
- ✔ I can regroup and use zero holder
- ✔ I can add rows for final product



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DID YOU KNOW?

The shortcut is just partial products in disguise!

24 x 36 really means 4 x 36 plus 20 x 36 added.

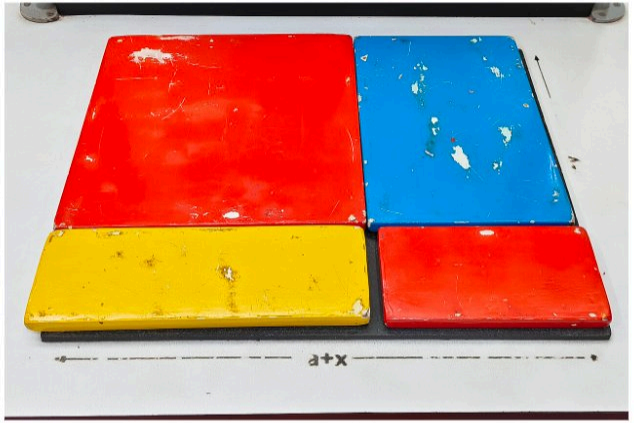


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BIG IDEA

Multiply every place value, then add it all.



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Your vote counts

What trips you up most in 36 x 24?

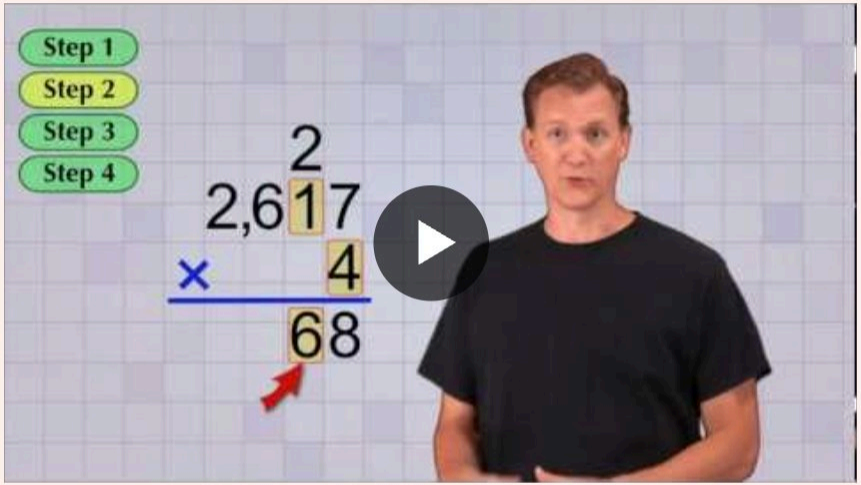


- **A** Forgetting the zero holder
- **B** Regrouping to the next place
- **C** Adding the two rows
- **D** Lining up digits neatly

Vote with your hands, then explain why.

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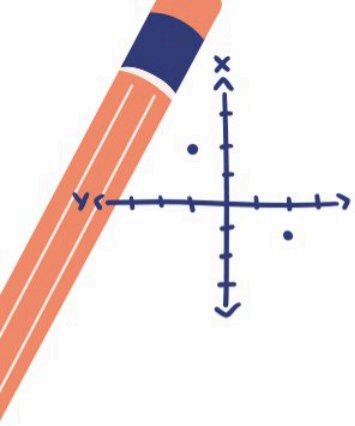
Watch the steps



▶ 0:00 – 5:00

- Spot where each multiply goes
- Watch when to regroup up
- See how rows add to product

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Key words

factor

a number you multiply

product

the answer to multiplication

regroup

trade 10 of one place for next

placeholder zero

zero that holds the tens place

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Level up to bigger



▶ 0:00 – 5:00

- Spot the zero holder in row two
- Track tens times each digit
- Check with a quick estimate



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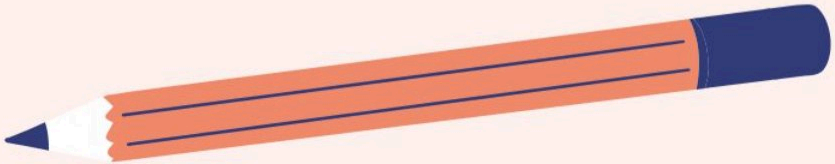
Your task

With your partner, crack four big multiplies using the standard algorithm.

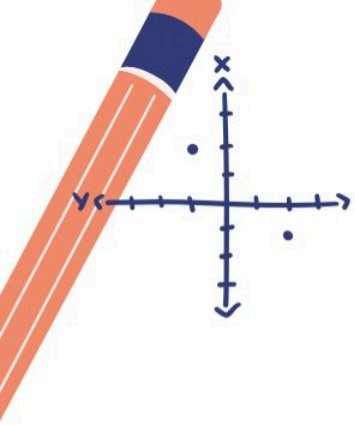
1. First solve 23 x 14 and 35 x 27
2. Then solve 143 x 32 and 205 x 34
3. Estimate first, then compare and check

10 min

In pairs

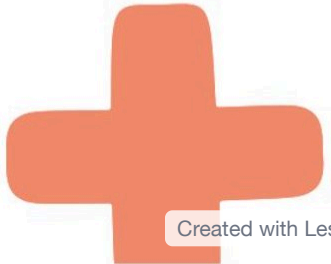


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4 steps that always work

1. Multiply ones, regroup if needed
2. Write 0 to hold tens place
3. Multiply tens, regroup if needed
4. Add both rows for product



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Think, pair, share

Why must row two of 36 x 24 start with 0?



Quick quiz

1. 12 x 13 = ?
2. 35 x 27 is about? Hint: 35 x 30
3. In 43 x 25, what is 43 x 20?
4. Why start row two with 0?

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