Receipt Roll: Long Multiplication Masters

Multiply big numbers step by step.



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Today we will...

WE ARE LEARNING TO

Multiply 4-digit numbers by 1 digit

Multiply up to 4 digits by 2 digits

SUCCESS LOOKS LIKE

✔ I can make one neat row for 1 digit

✔ I can use a zero holder for 2 digits

✔ I can add both rows for total



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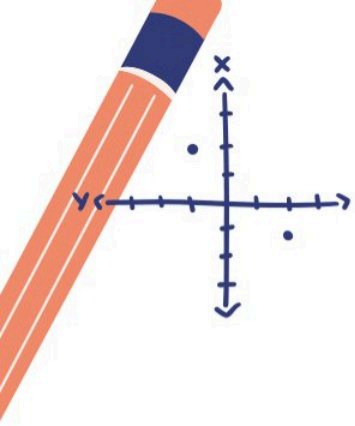
Short or long?

- Short multiplication: one row for 1-digit number
- Long multiplication: two rows for 2-digit number
- Partial product: small answer we add for total



Illustration: NinaCliparts · Pixabay

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Build it up

1. Line up digits in straight columns
2. Times the ones: write first row
3. Put 0, times the tens: write second row
4. Add both rows to get total

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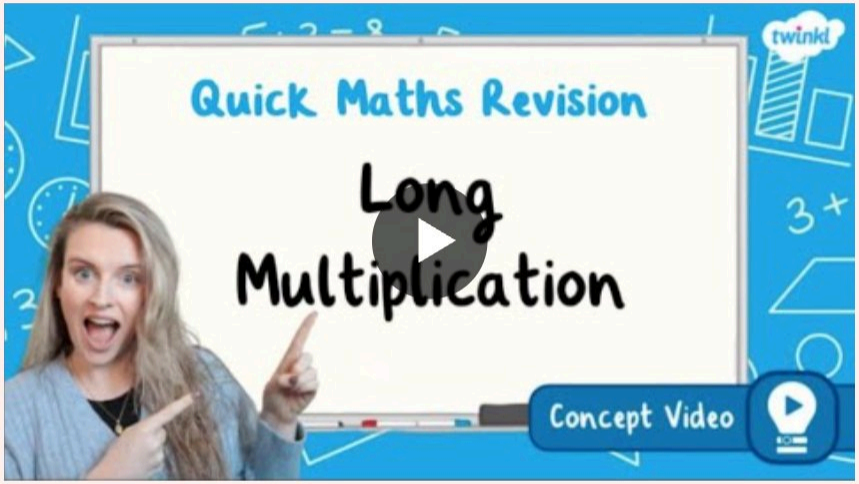
What could this be?

24 packs,
1,236 stickers
in each pack.
How many in
all?



Photo: stevepb · Pixabay

Watch the zero holder



▶ 0:00 – 5:00

- Watch where the zero holder goes
- Listen: ones first, then tens

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BIG ORDER!

29,664

stickers in 24 packs

1,236 x 24 = 29,664, close to 1,200 x 25.

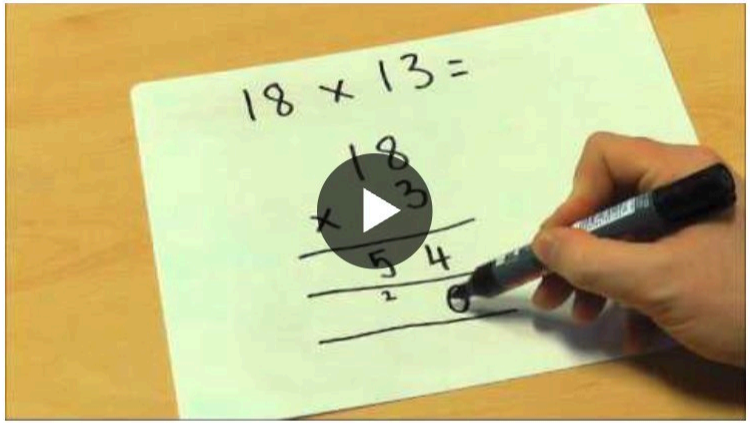




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Keep columns neat



▶ 0:00 – 2:01

- Spot how columns stay lined up
- Check the last add for total

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Your task

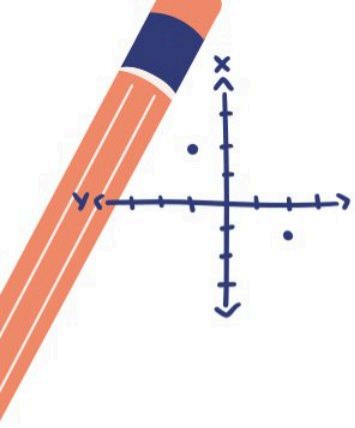
Solve the sticker order and write the receipt.

1. 1. Solo: work out 124 x 6
2. 2. Pairs: work out 345 x 23 and 1,236 x 24
3. 3. Show both rows, zero holder and total

20 min

In pairs

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BIG IDEA

Multiply by the ones, then by the tens, then add.

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Think, pair, share

Why do we put a zero at the start of the second row?

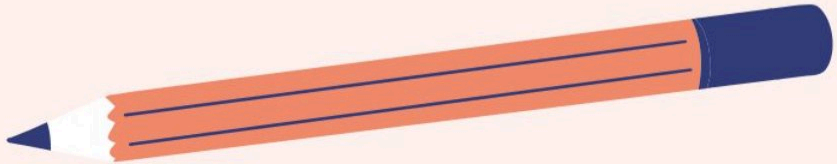


True or false?

Long multiplication uses two rows for a 2-digit number.

You can leave out the zero holder.

345 x 23 = 7,935.



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