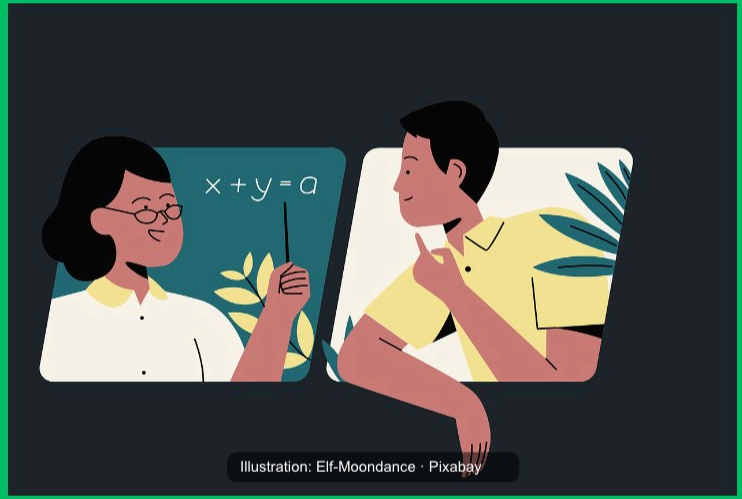
Decimals in Action

Add, subtract, multiply, and divide like a pro



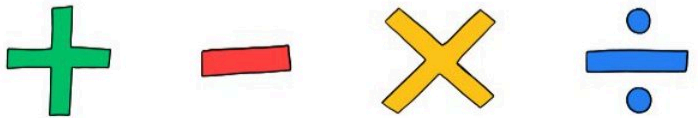
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What Feels Trickiest?

Which decimal operation do you most want to practice today?

- **A** Adding and subtracting
- **B** Multiplying
- **C** Dividing
- **D** I'm confident with all four

Vote with your hands, then explain why.



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$a^2+b^2=c^2$

Our Four Moves

+

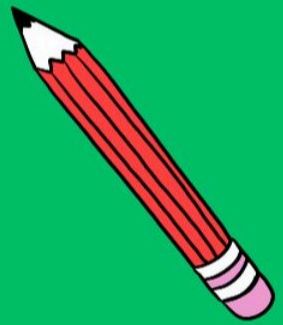
Add

Line up points, then add each place.

−

Subtract

Line up points, then subtract each place.



×

Multiply

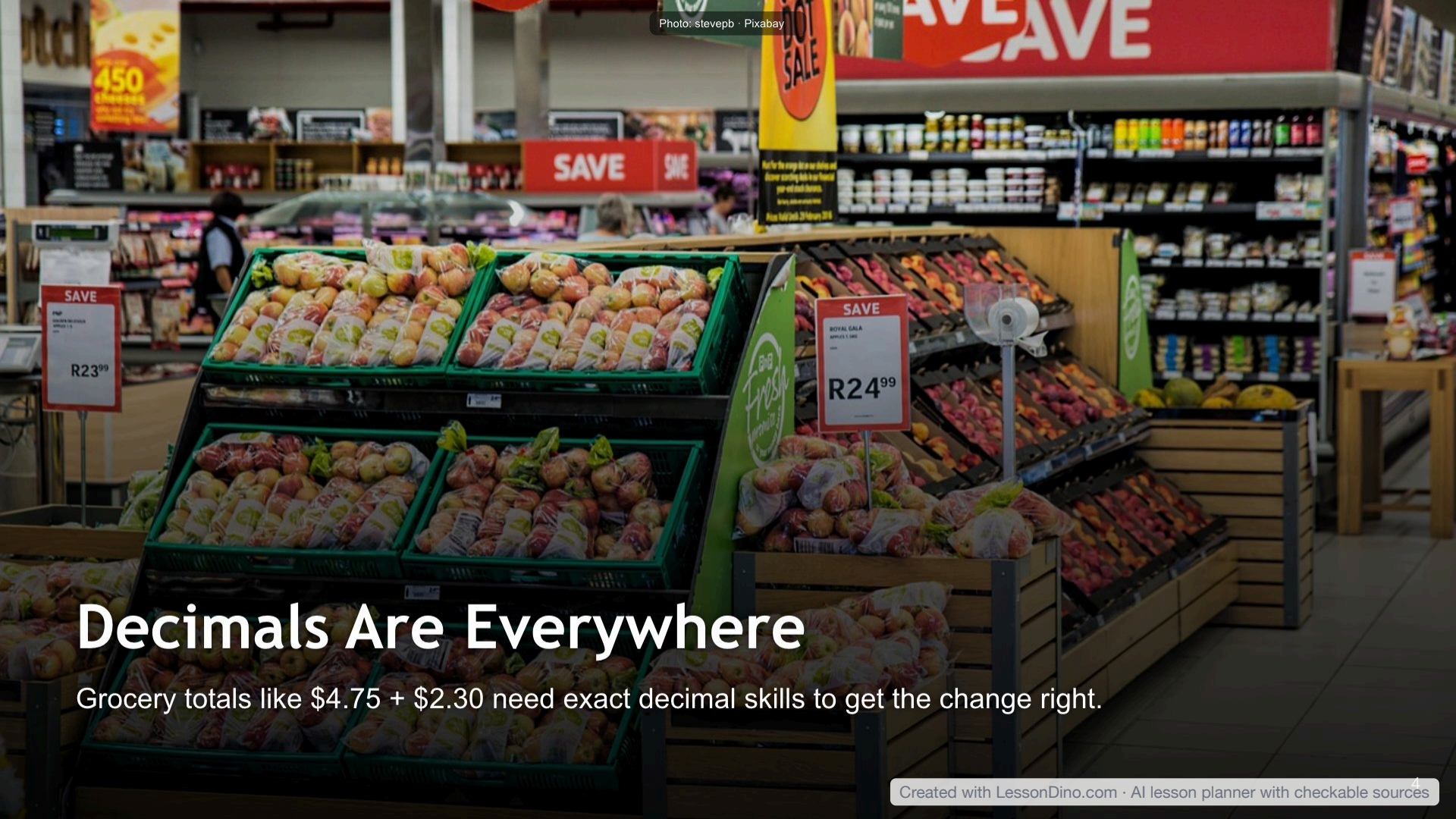
Multiply as whole numbers, then place point.

÷

Divide

Shift point to make divisor whole.

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Decimals Are Everywhere

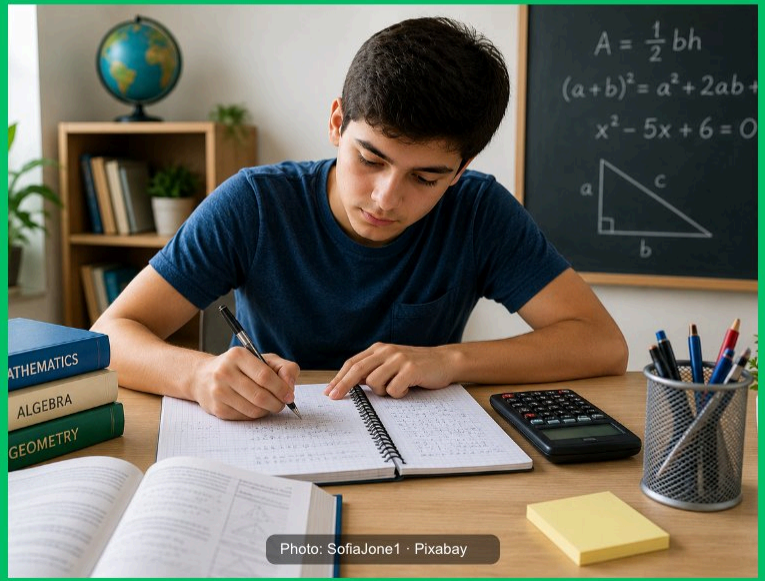
Grocery totals like $4.75 + $2.30 need exact decimal skills to get the change right.

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$$a^2+b^2=c^2$$

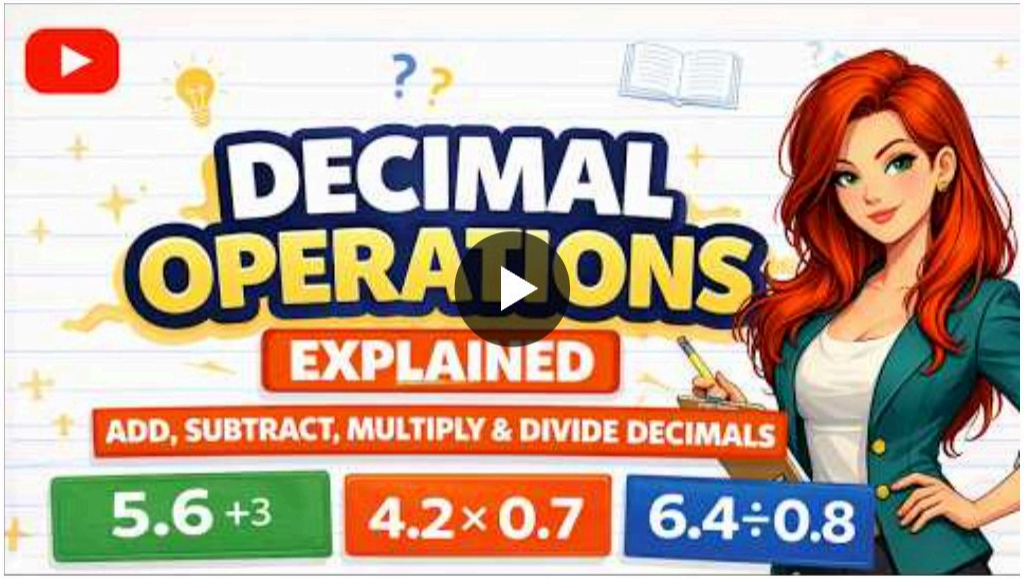
What could this be?

A student stacked 12.5 over 3.75 but the digits look shifted. What went wrong here?



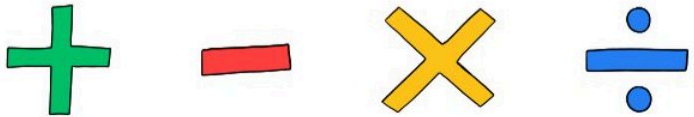
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Watch the Four Steps



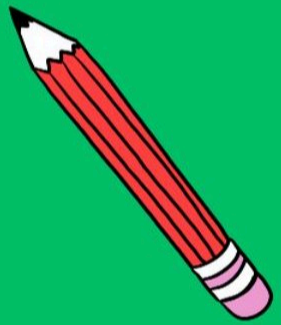
▶ 0:00 – 5:02

- Spot how adding lines up points
- Listen for counting places in multiply
- Notice shifting the point to divide



$a^2+b^2=c^2$

Standard Algorithm Reminders



Line Up

Add and subtract with points in line.

Fill Zeros

Add zeros so places match up.

Count Places

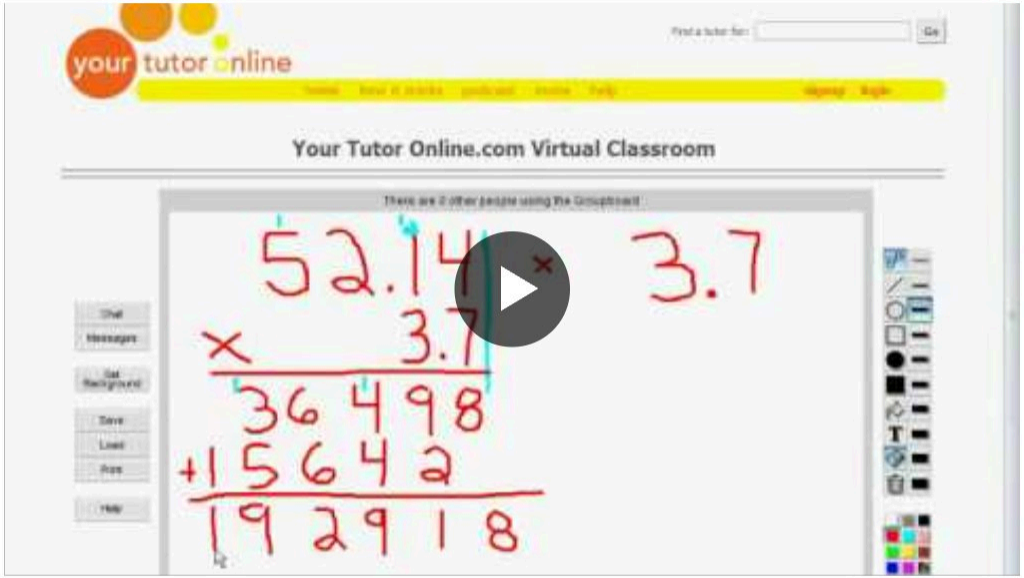
Total decimal places go in product.

Shift Points

Move points equally to divide.

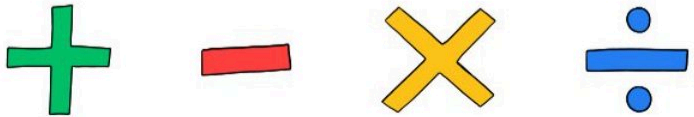
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See One of Each



▶ 0:00 – 5:24

- Follow the lined-up addition and subtraction
- Count decimal places in the product
- Watch the divisor become a whole number



$a^2+b^2=c^2$

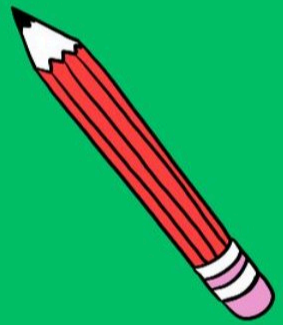
Your task

In pairs, solve four money problems using the standard algorithm for each operation.

1. Solve: $5.48 + $2.75 and $9.60 - $3.85
2. Solve: 4.25 x 1.6 and 8.64 ÷ 2.4
3. Estimate first, then compare your steps

10 min

In pairs



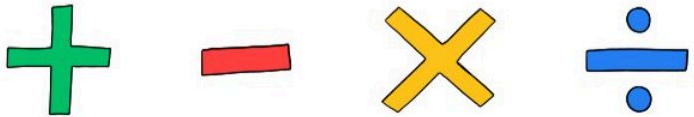
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DID YOU KNOW?

Adding a zero to a decimal does not make it ten times bigger.

For decimals, multiplying by 10 moves the point right: 3.45 x 10 = 34.5.





$a^2+b^2=c^2$

Think, pair, share

Why must we make the divisor a whole number before we divide decimals?

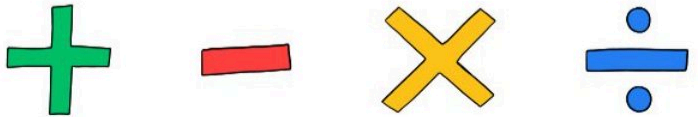




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Quick quiz

1. What is 2.34 + 1.2?
2. What is 5.6 - 2.45?
3. What is 3.2 x 1.5?
4. What is 7.5 ÷ 0.5?



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