Fence It? Fill It?

Solving real problems with area and perimeter



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Today we will...



WE ARE LEARNING TO

- Use rectangle area formula in real problems
- Use rectangle perimeter formula in real problems
- Find a missing side from area or perimeter

SUCCESS LOOKS LIKE

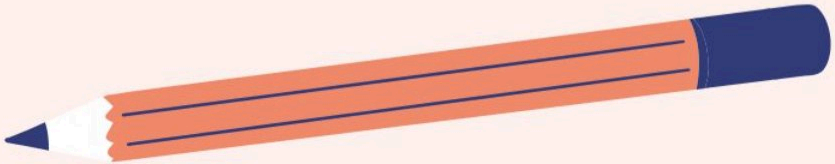
- ✔ I can find area with length times width
- ✔ I can find perimeter by adding sides
- ✔ I can find missing side with multiplication or addition

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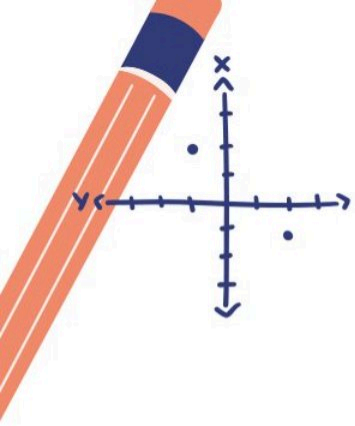


New Floor, New Fence

- Our classroom needs new floor tiles and trim around the rug. How do we know how much to get?



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Two Big Ideas

Area

Space inside. Count square tiles to fill it.

Perimeter

Distance around. Walk all the way round it.

Square feet

Unit for area. One tile 1 foot by 1 foot.

Feet

Unit for perimeter. Length along the edge.

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Watch and Sing Along



▶ 0:00 – 1:58

- Outside edge means perimeter
- Inside space means area
- Shout the formula when you hear it



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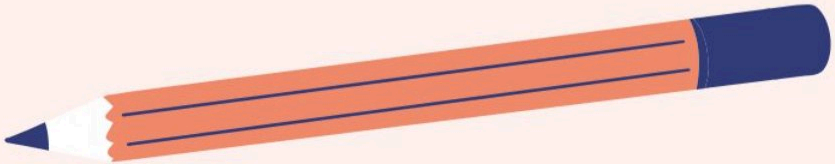
Area vs. Perimeter

Area

- Covers inside space
- Measured in square feet
- Find with length times width

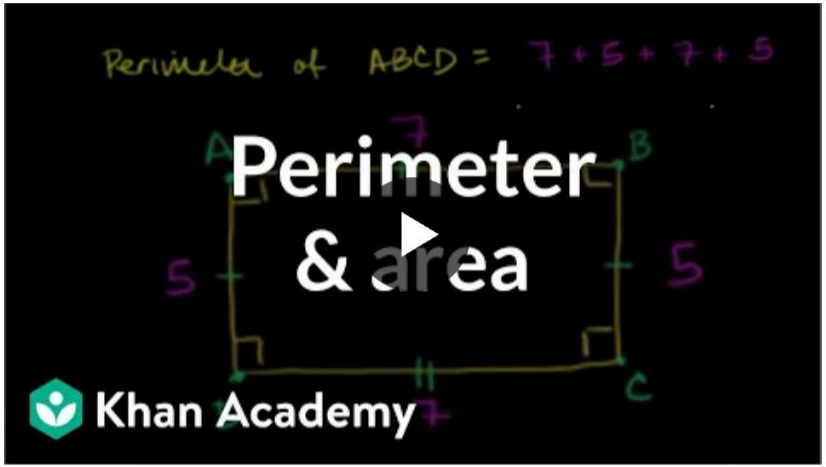
Perimeter

- Goes around outside edge
- Measured in feet
- Find by adding all sides



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Shortcut for Rectangles



▶ 0:00 — 4:50

- Watch how length times width works
- Watch how sides add up
- Look for missing side trick

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Your task

In pairs, solve the flooring puzzle and the fence puzzle.

1. Find width: area 48 square feet, length 8 feet.
2. Find length: perimeter 26 feet, width 5 feet.
3. Show multiplication or addition that proves it.

10 min

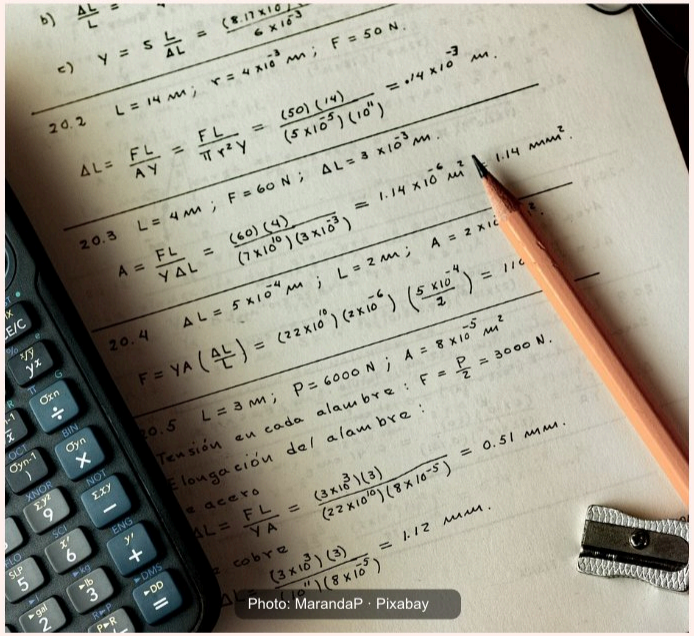
In pairs



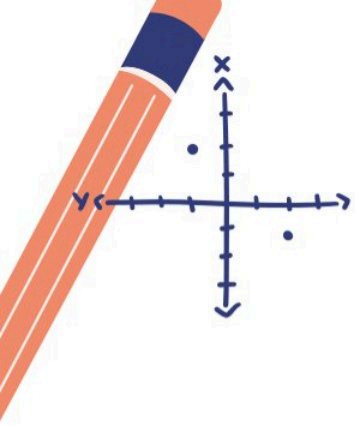
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Find the Missing Side

- Write the formula with numbers you know
- Make a multiplication or addition puzzle with ?
- Try numbers until ? makes it true



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Best Garden?

You have 24 feet of fence. Which garden would you build?

A Long and thin: 10 feet by 2 feet

B Even square: 6 feet by 6 feet

C Middle size: 8 feet by 4 feet

Vote with your hands, then explain why.

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Quick quiz

1. Room is 9 feet by 5 feet. What is its area?
2. Same room. What is its perimeter?
3. Rug area is 36 square feet. Length is 9 feet. Width?
4. Fence perimeter is 20 feet. Length is 6 feet. Width?



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