

Grade 3 Unit 2 Module 2 TEA • Watertown's Windows • Part 1

Watertown's Window Washer



Tech-Enhanced Activities (TEAs) provide opportunities for students to engage in synchronous and asynchronous learning with tasks and activities adapted from [Bridges in Mathematics Second Edition](#). TEAs can be flexibly used within the various learning structures and needs of educators, schools, and districts.

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Wally the Window Washer

Wally lives in Watertown, where he is responsible for cleaning all of the windows in town.



Wally the Window Washer

He cleans the windows of the school, the post office, government buildings, stores, and more.



Watertown's Windows

Some of the windows are made up of lots of little window panes, like these ones at Watertown School.

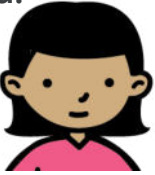
Today, Wally is washing the windows at the school.



Windows of Watertown School

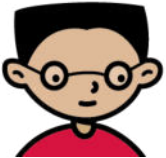
What do you notice about the windows on the school?

Luca said:



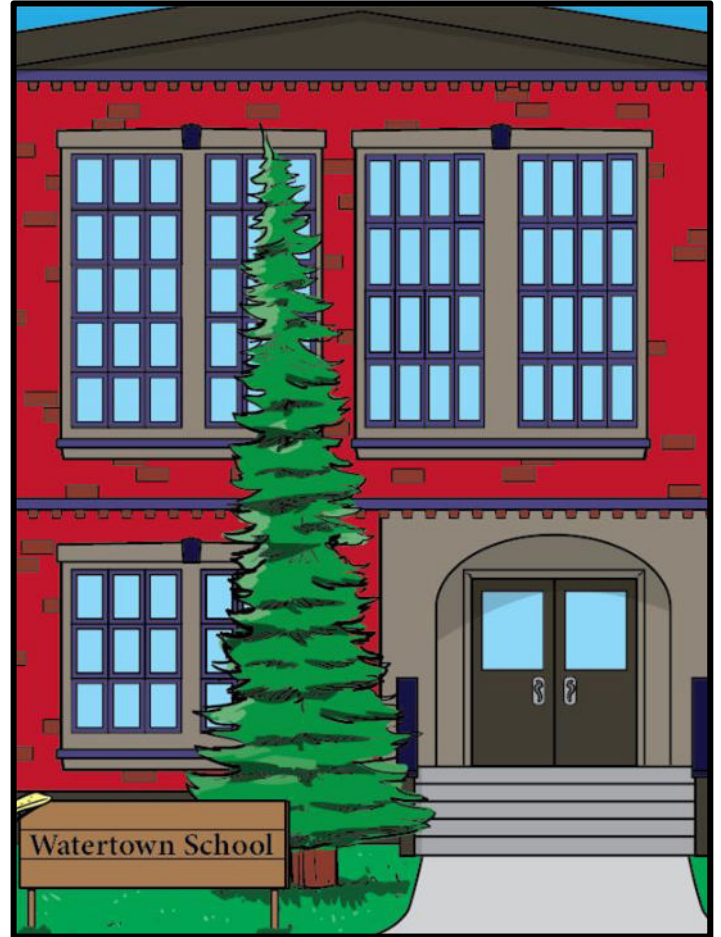
I noticed that there are three different types of windows.

Wei said:



I noticed that panes are different sizes.

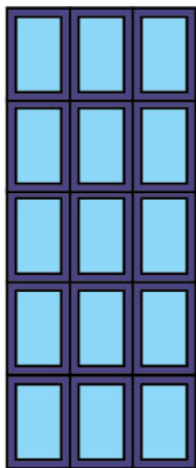
What else do you notice?



Think: How Many Window Panes?

These are some of the windows on the second floor of Watertown School.
Can you show two different ways to make equal groups with these window panes?

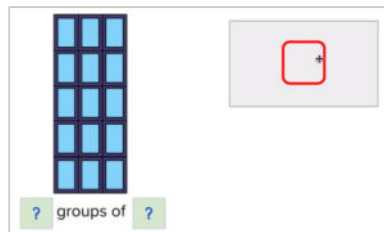
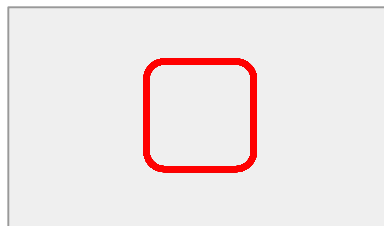
Move and stretch the red loops to show equal groups.



?

groups of

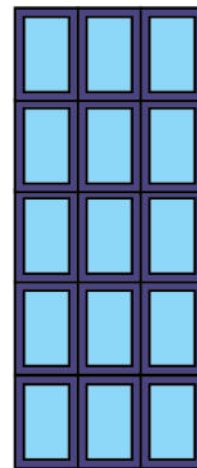
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groups of

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groups of

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Luca's Strategy

Drag and drop the labels that describe Luca's strategy. You can use more than one.



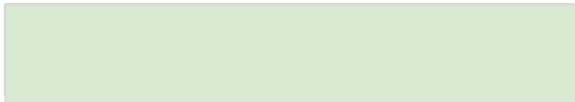
5 groups of 3

$5 + 5 + 5$

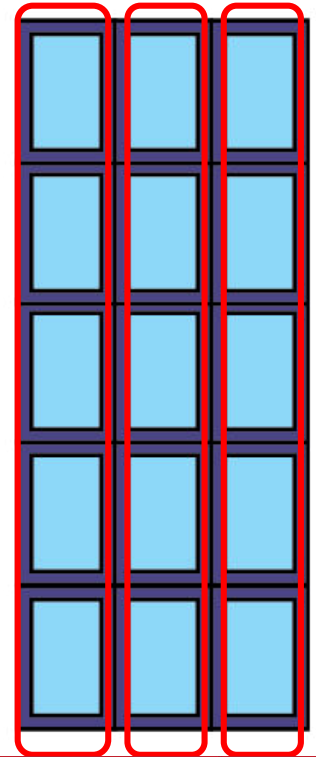
3 groups of 5

$3 + 3 + 3 + 3 + 3$

Write a multiplication expression to describe Luca's thinking:



How is Luca thinking in equal groups?
How was your strategy the same or different as Luca's strategy?



Wei's Strategy

Drag and drop the labels that describe Wei's strategy. You can use more than one.

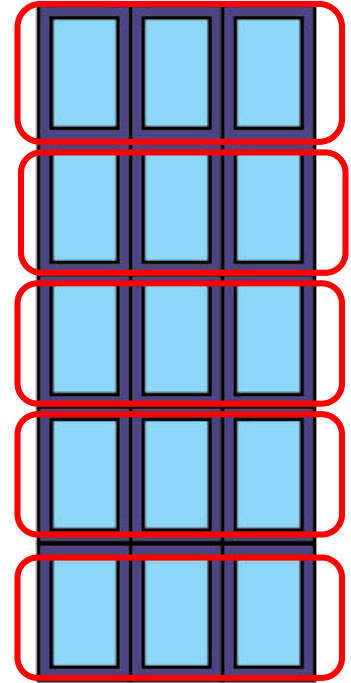


5 groups of 3

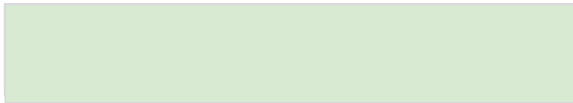
$5 + 5 + 5$

3 groups of 5

$3 + 3 + 3 + 3 + 3$



Write a multiplication expression to describe Wei's thinking:





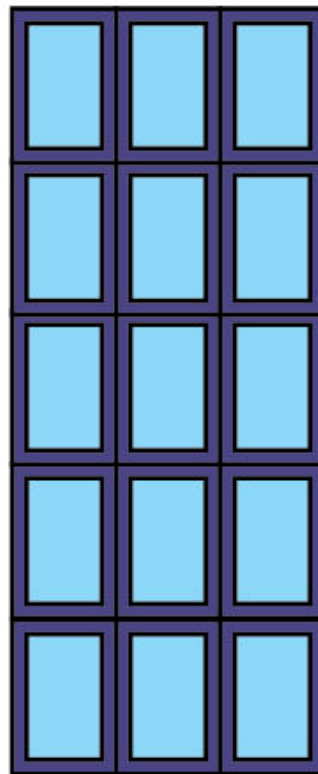
How is Wei thinking in equal groups?
How was your strategy the same or different as Wei's strategy?



Solve: How Many Window Panes?

Show your thinking with pictures, numbers, or words.
Add an image or type below.

Insert an image  OR Type your strategy 

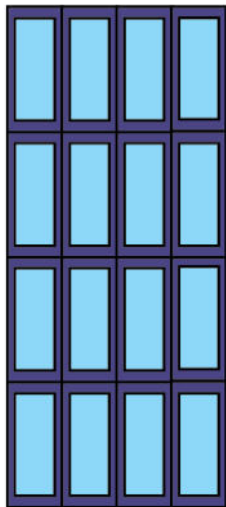


Think: How Many Window Panes?

These are some more of the windows on the Watertown School.

Can you show two different ways to make equal groups with these window panes?

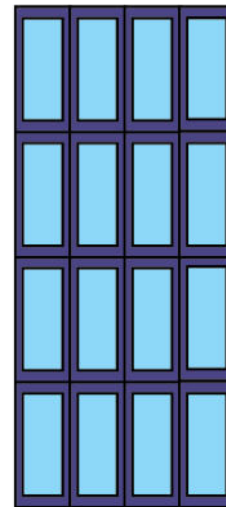
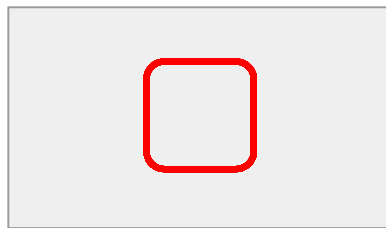
Move and stretch the red loops to show equal groups.



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groups of

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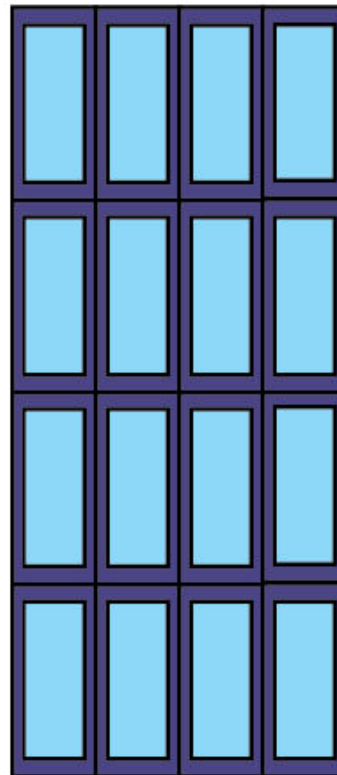
groups of

?

Solve: How Many Window Panes?

Show your thinking with pictures, numbers, or words.
Add an image or type below.

Insert an image  OR Type your strategy 



The Window Pane Challenge

How many window panes are on the front of Watertown School?

Think about the problems you just solved.
How can they help you?

Show your thinking with pictures, numbers, or words.
Add an image or words below.

Insert an image  OR Type your strategy 

