

Math Word Problems

Let's face it, as useful as math is (and I think it's pretty useful), sometimes practicing it can be a boring and repetitive. We've tried to make things a bit more interesting by connecting some math word problems to the Vital Vio technology that Colleen and her team are developing. We suggest that students watch the video first—to learn a bit about what Colleen is doing—and then dive into these math problems.

Support sheets are provided for the K–2 questions.

Grades K–2

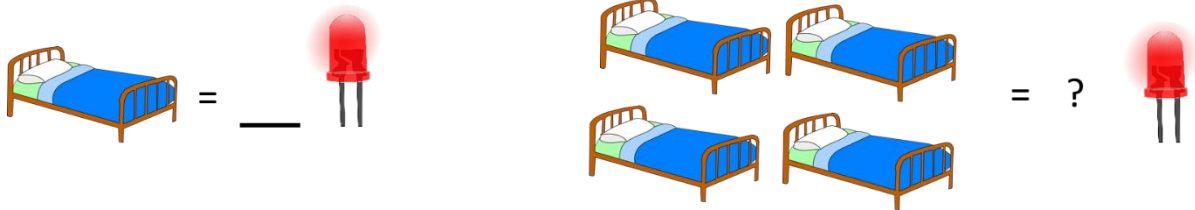
1. If 1 Vital Vio light can clean 1 hospital bed, how many lights do you need to clean 4 hospital beds?
 - What if you need 2 Vital Vio lights for each bed?
 - What if you need 3 Vital Vio lights for each bed?
2. How many bathrooms are in your house? If you need 2 Vital Vio lights for each bathroom, how many lights would your home need? What if you needed 3 for each bathroom? Or 5?

Grades 3–5 (ask students to show their work in 2 different ways)

1. If a single Vital Vio light can clean 1 cubic foot of space, how many lights would you need to clean a space with that was 2 feet by 2 feet by 2 feet? (Suggestion – Use boxes that are 1 ft x 1 ft x 1 ft and boxes that are 2 ft x 2 ft x 2 ft to have students figure out the answer to this question).
2. If a wall has 50 germs per square foot, how many germs are there on a wall that is 4 ft by 5 ft?
3. How many bathrooms are in your house? If you need 2 Vital Vio lights for each bathroom, how many lights would your home need? If a Vital Vio light cost \$3, how much would it cost to get them for all the bathrooms in your home?

If one Vital Vio light can clean _____ hospital beds, how many lights do you need to clean 4 hospital beds?

You can use the pictures below to help you figure out the answer.

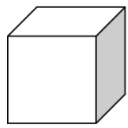


Count the bathrooms in your home. How many are there?

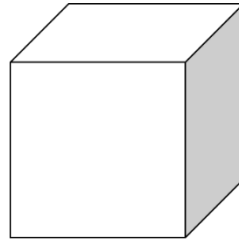
If each bathroom needs _____ Vital Vio lights to keep it clean how many do you need for your home?

If each light cost \$3, how much would it cost to get all the lights you need for your home?

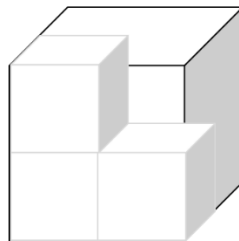
If a single Vital Vio light can clean 1 cubic foot of space, how many lights would you need to clean a space with that was 2 feet by 2 feet by 2 feet?





= 1

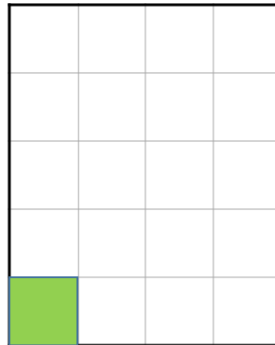


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If a wall has 50 germs for an area of 1 foot by 1 foot, how many germs are there on a wall that is 4 feet by 5 feet?

 = 50 



= ? 