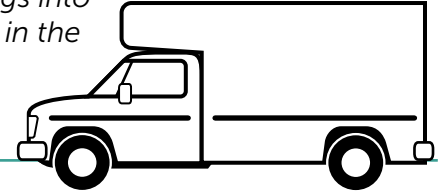Name: _____   Date: _____

Applying Volume to Real Life: Moving

Directions: *You are moving and need to figure out how to fit all your belongings into a bigger box. Figure out how many of each item will fit into the bigger box. Fill in the maximum number of each item that will fit into the bigger box. Show your calculations.*

Example:

How many shoeboxes will fit into the larger cardboard box?

4 in
8 in
5 in

36 in
25 in   15 in
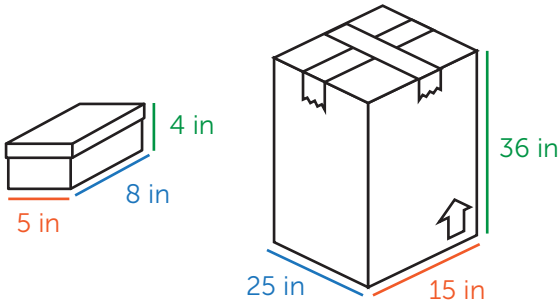
Maximum number of shoe boxes: ___81___

Explanation:

If the **length** of the bigger box is **25 inches**, that means I can fit **three shoe boxes** along the length of the big box.

If the maximum **width** is **15 inches**, I can fit **three shoe boxes** wide along the width of the big box.

If the bigger box **height** is **36 inches**, I can fit **nine shoe boxes** high in the bigger box.

I will have 9 layers, of three shoe boxes times three shoe boxes (**3 x 3 = 9** shoe boxes in a layer). So, 9 shoe boxes per layer, times 9 layers high = (**9 x 9 = 81**) shoe boxes all together.
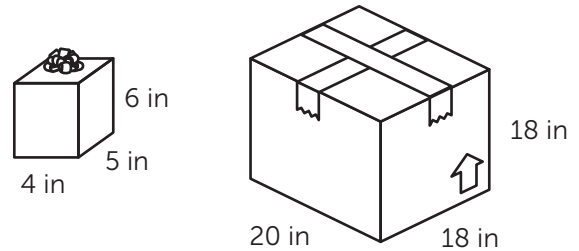
Therefore, **81 shoe boxes** will fit in the bigger box!

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1. How many shoeboxes will fit into the larger cardboard box?

5 in
10 in
6 in

18 in
18 in   30 in
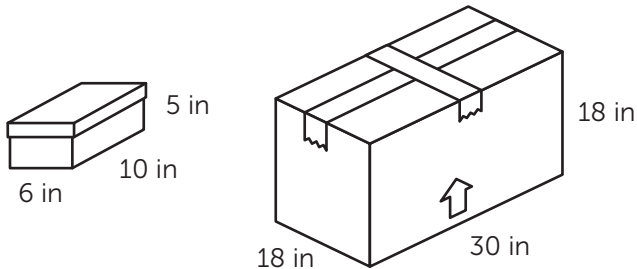
Maximum number of shoe boxes: _____

2. How many gift boxes will fit into the larger cardboard box?

6 in
5 in
4 in

18 in
20 in   18 in

Maximum number of gift boxes: _____
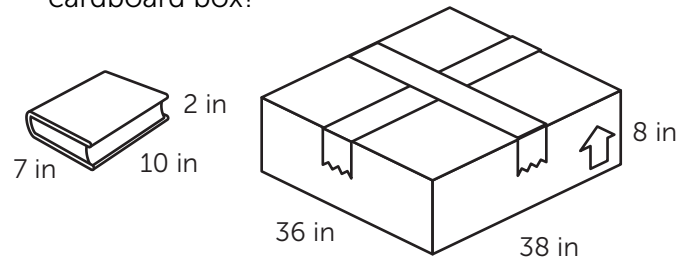
Applying Volume to Real Life: Moving

Directions: *You are moving and need to figure out how to fit all your belongings into a bigger box. Figure out how many of each item will fit into the bigger box. Fill in the maximum number of each item that will fit into the bigger box. Show your calculations.*
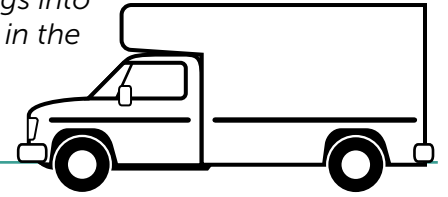
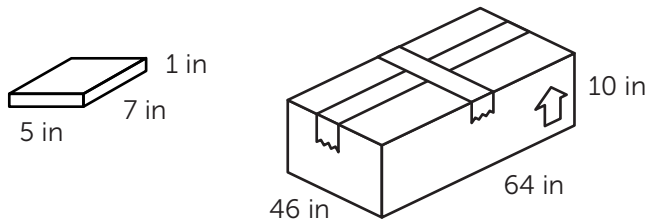**3.** How many boxes of toothpaste will fit into the larger cardboard box?

3 in
6 in
2 in

22 in
50 in
18 in

Maximum number of toothpaste boxes: _____
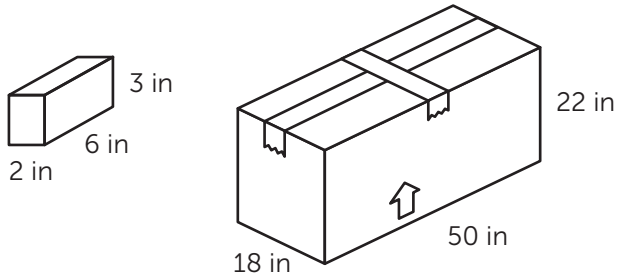
4. How many books will fit into the larger cardboard box?

2 in
7 in
10 in

8 in
36 in
38 in

Maximum number of books: _____

5. How many video game cases will fit into the larger cardboard box?

1 in
7 in
5 in

10 in
64 in
46 in

Maximum number of video game cases: _____