

Start the unit with the video.

As new topics are discussed, tackle a new problem.

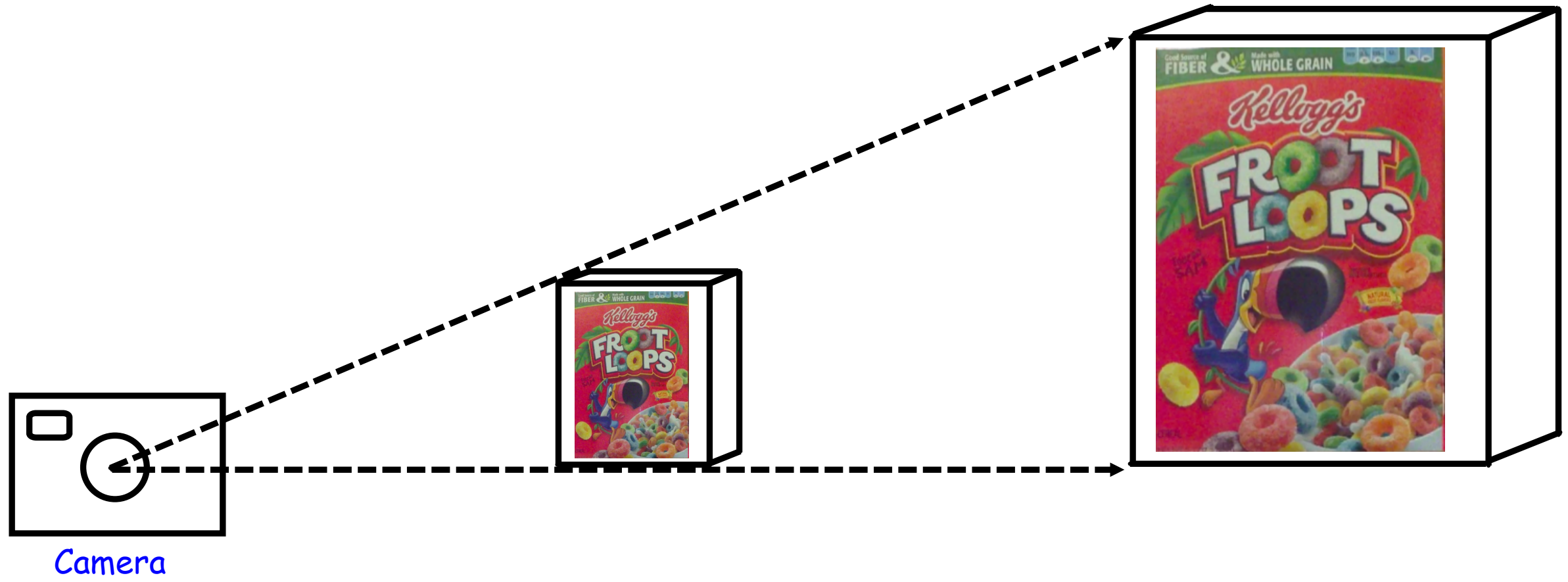
- 1.) What is the height of the big box?
- 2.) What is the volume of the big box?
- 3.) How many normal sized fruit loops would fit in the box?
- What should the 'Servings per Container' say?
- 4.) How big would each Fruit Loop be if it increased in size with the box?

For each stage:

- 1.) What is your estimate
- 2.) What would be too small?
- 3.) What would be too large?

How big is the box in the background?







39"

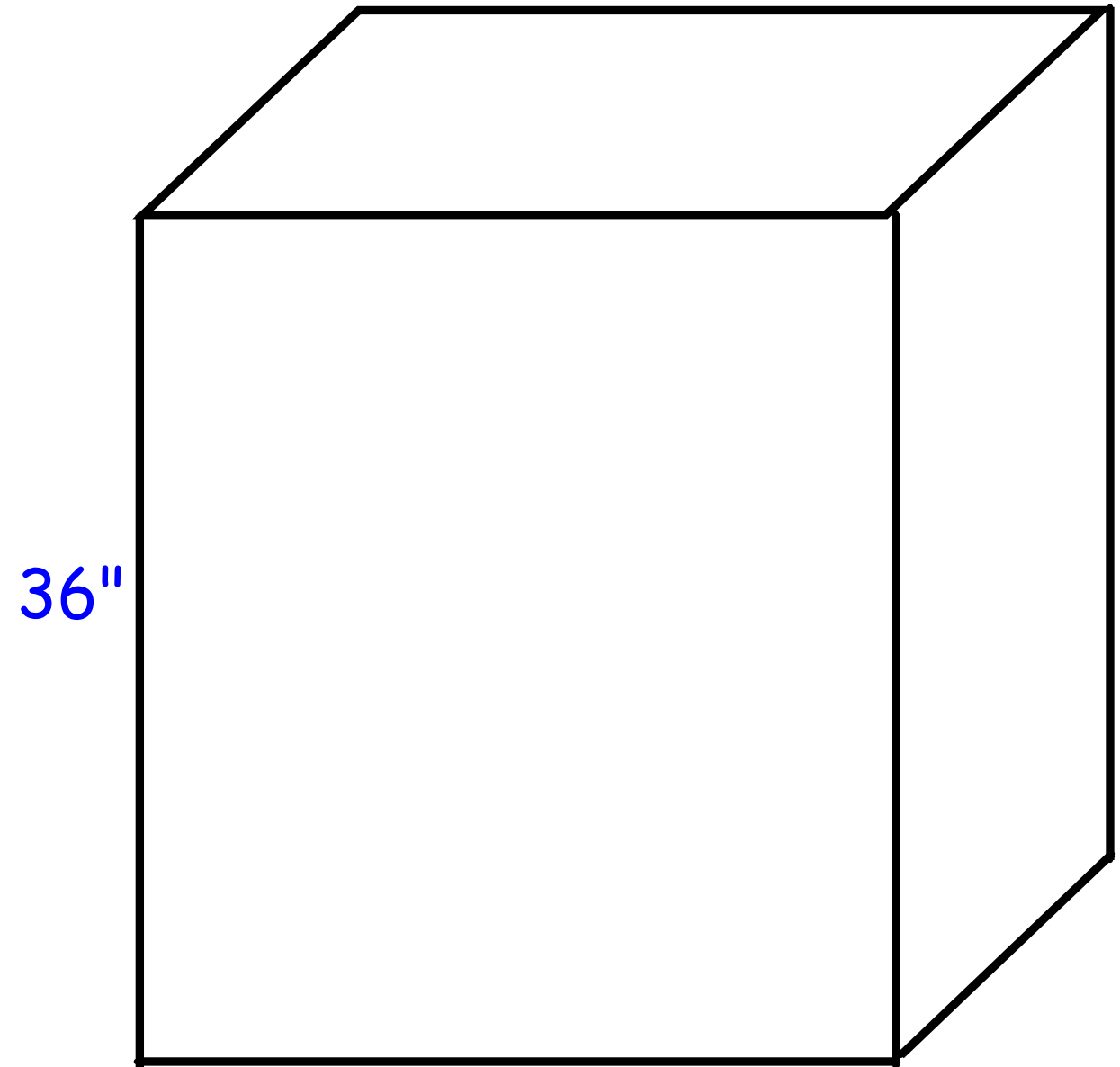
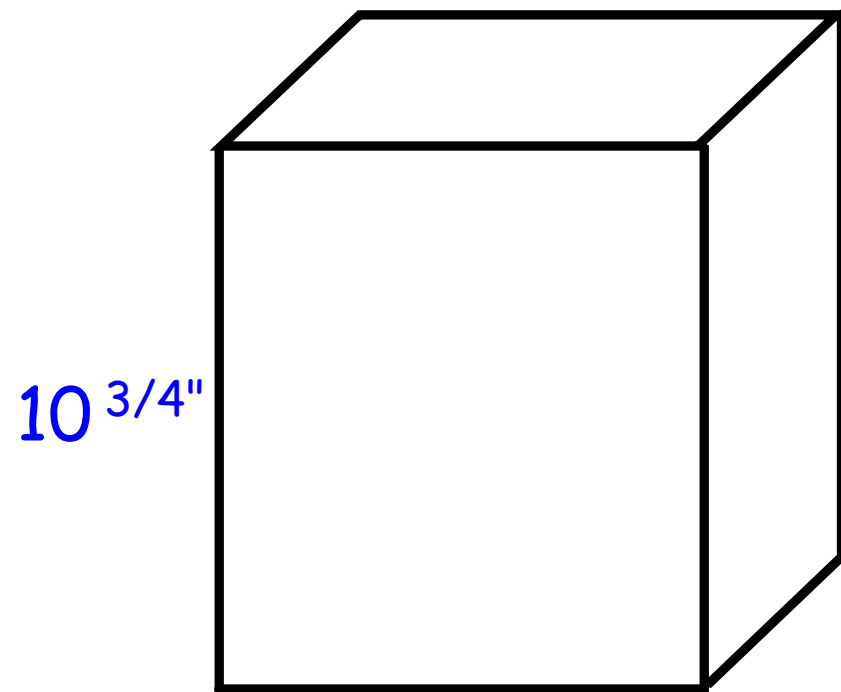


130 1/2"

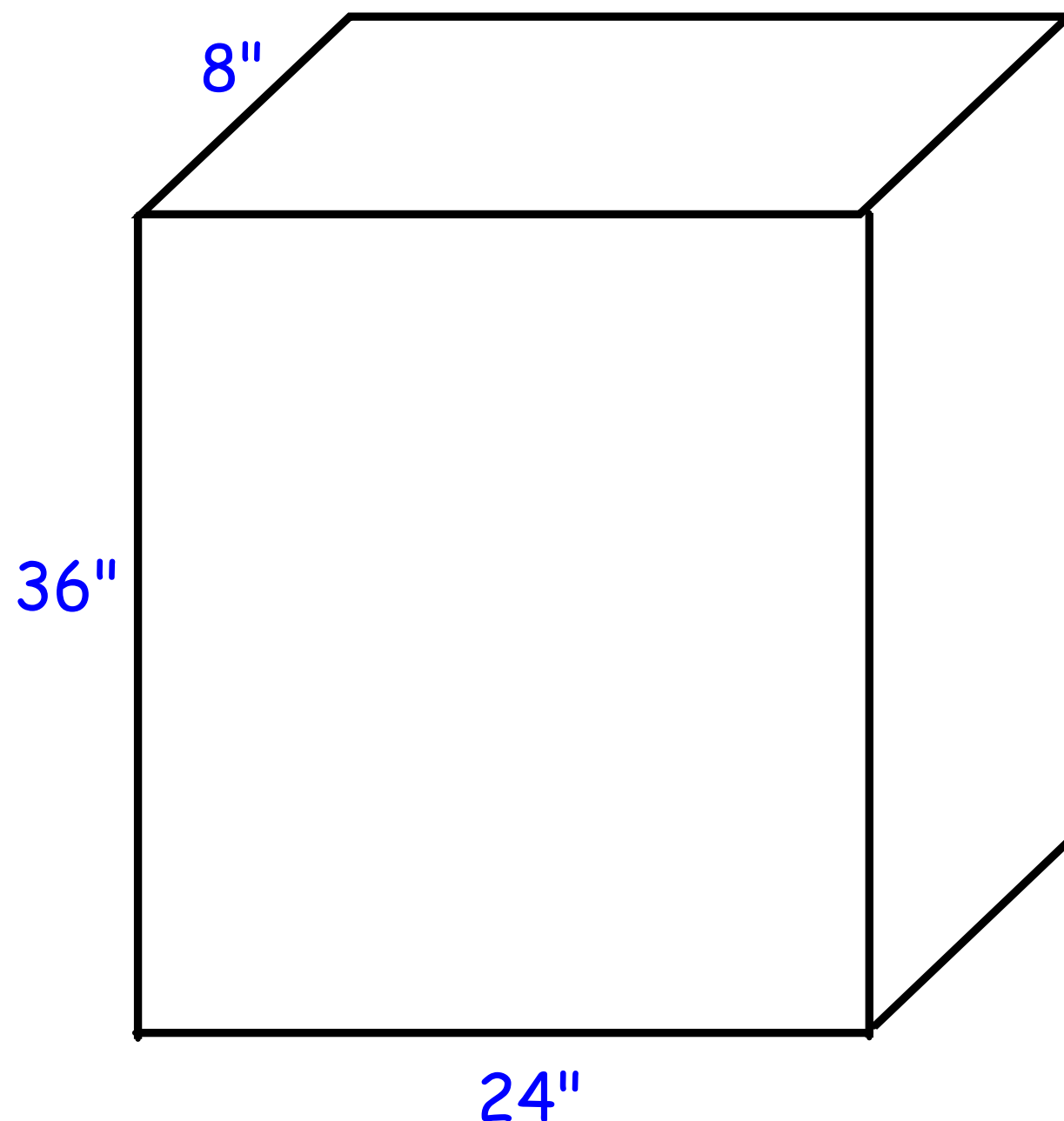
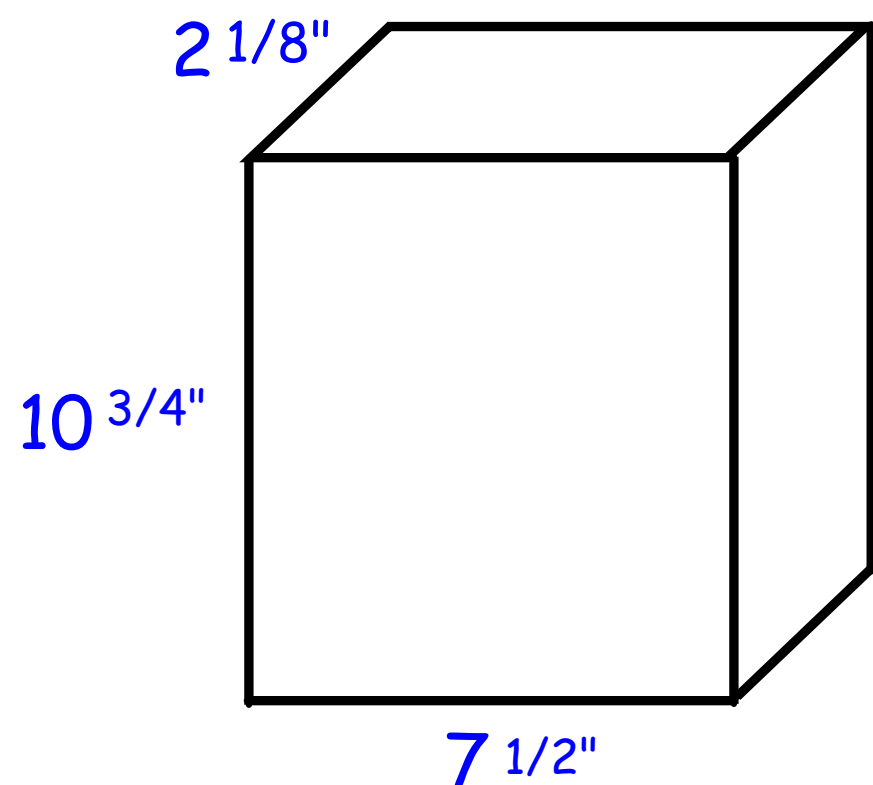
The Height is $3\frac{1}{3}$ times longer.

How much bigger is the box?

How much greater is the volume of the box on the right?



Actual Dimensions



What should be the Serving Per Container of the larger box?

What should be the Serving Per Container of the larger box?

Nutrition Facts
 Serving Size 1 Cup (29g)
 Servings Per Container About 8

Amount Per Serving	Cereal	with 1/2 cup skim milk
Calories	110	150

?????

Nutrition Facts
 Serving Size 1 Cup (29g/1.0 oz.)
 Servings Per Container

Amount Per Serving	Cereal	Cereal with 1/2 Cup Vitamins A&D Fat Free Milk
Calories	110	150
Calories from Fat	10	10
% Daily Value**		
Total Fat 1g*	2%	2%
Saturated Fat 0.5g	3%	3%
Trans Fat 0g		
Cholesterol 0mg	0%	0%

Nutrition Facts
 Serving Size 1 Cup (29g)
 Servings Per Container About 8

Amount Per Serving	Cereal	with 1/2 cup skim milk
Calories	110	150
Calories from Fat	10	10
% Daily Value**		
Total Fat 1g*	2%	2%
Saturated Fat 0.5g	3%	3%
Trans Fat 0g		
Polyunsaturated Fat 0g		
Monounsaturated Fat 0g		
Cholesterol 0mg	0%	0%
Sodium 135mg	6%	9%
Potassium 35mg	1%	7%
Total Carbohydrate 25g	8%	10%
Dietary Fiber 3g	11%	11%
Sugars 12g		
Protein 1g		
Vitamin A	10%	15%
Vitamin C	25%	25%
Calcium	0%	15%
Iron	25%	25%
Vitamin D	10%	25%
Thiamin	25%	30%
Riboflavin	25%	25%

How big would each Fruit Loop be if they also increased in size with the box?



Is this accurate? Too big? Too small?



