What year the final result?

What questions come to your mind as a mathematician when seeing this video?

- How many sugar cubes fill the box? How many sugar cubes are actually in the How big are the Sugar cubes?
- ·How big are the Sugar

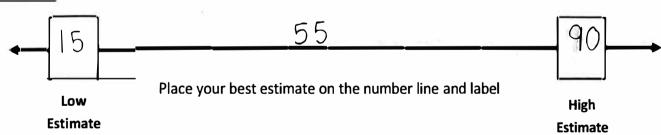
the Main Focus Question How Many Sugar cubes are

Act 2

What information would you like to know or need to know to solve the problem?

How big is the box?
How big is one sugar cube?
How do they place the sugar cubes in the

Estimate:



Record any new information provined and calculate that final solution. Planet be successful tablet along

- 13 rows
- · 6 COLUMNS
- ·18 in each layer
- 180

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Date 3 · 20 · 19

Act 1

What questions come to your mind as a mathematician when seeing this video?

- · How many cubes can fit in the box?
- · How big is each cube?
- · How big is the box?
- · How many cubes are acutally in the box?

Main Focus Question How many sugar cutes are there in the box?

Act 2

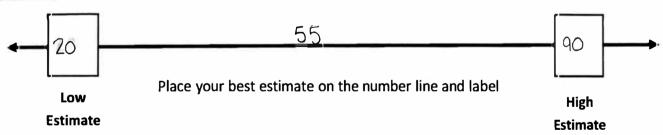
What information would you like to know or need to know to solve the problem?

The size of the box

The size of the sugar cubes

The placement of the sugar cubes

Estimate:



Any observations made after seeing the second video?

· lo columns (3 in each)

Estimate: 180

- ·3 rows (b in each)
- . 18 in each layer

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Date Mar 20 2019

Act 1

What questions come to your mind as a mathematician when seeing this video?

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· How many sugar eubes are in the box?

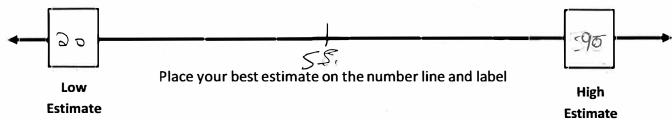
- a How many colories? 1

Main Focus Question How many summer Clubes are in the box

What information would you like to know or need to know to solve the problem?

The sizes of Sugar Cubes The placement of the cubes

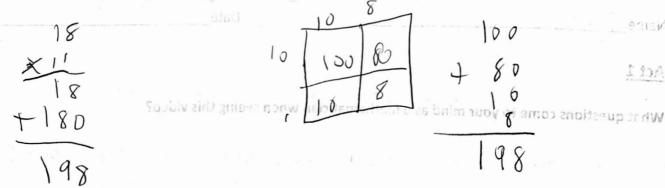
Estimate:



- · 6 columns

- about 180-cubes inbax

Use this area for work, tables, calculations, sketches, to find the final solution-



Main Focus Question

hree Act Task Reco	rding Sheet: Sugar Cubes
	ording Sheet: Sugar Cubes Date 3-20-/9
,	

What questions come to your mind as a mathematician when seeing this video? How many more sugar cubes are in the boxil · Howmpy sugar cubes are in the box? If one sugar cube weighs I gram and the DOX weighs 453g wouldn't there be 453 sugar cubes Main Focus Question town many sugar cubes are in the box? Act 2 What information would you like to know or need to know to solve the problem? · 502 - (box) · Size (Sugarcube) iplacement of sugar cubes in box **Estimate:** Place your best estimate on the number line and label Low High **Estimate Estimate**

Any observations made after seeing the second video?

.3 r8 WS .6 coloms

· height about 10

This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Calculating Volume of Rectangular Prisms: Public Lesson. Austin Figures: the Charles A. Dana Center at The University of Texas at Austin.

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Record any new information	provided and calculate the final solution. Please	be sure to label clearly.
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Name_ Date Date
<u>Act 1</u>
What questions come to your mind as a mathematician when seeing this video?
How many sugar cubes are in all? How much does each one cost? Sugar cubes are just sugar just sugar
Main Focus Question How Many Sigar cubes are in that box?
What information would you like to know or need to know to solve the problem?
Are they only going to fill it half way or
Estimate: Could the Sugar cubes braike and sugar cubes. eawal a one?
Place your best estimate on the number line and label High
Estimate Estimate Unusation of the same feet W

Any observations made after seeing the second video?

 $3\times6 = 18$ cubes par layer $\times 18$

Use this area for work, tables, calculations, sketches, to find the final	solution-
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	Main Fecusi Question
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198 Sygar cubes in	acii wr

Three	Act	Task	Record	ling :	Sheet:	Sugar	Cubes

Date 3-20-1	9
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What guestions come to your mind as a mathematician when seeing this video?

the length, width, height and volume of the box How many cubes are in I bow? How much does each box cost?

second any new i form tier provided and calculate the final solue v. Pforce he sum to I stall clearly.

sugar cubes are in that box? Main Focus Question _\(\frac{1}{2}\omega \cdots \quad m \any \)

Act 2

What information would you like to know or need to know to solve the problem? What is length and width of one sugar cubep What is the length and width of the whole box? Are the sugar cubes an the 1s the box filled to the top? Estimate:



Low **Estimate** Place your best estimate on the number line and label

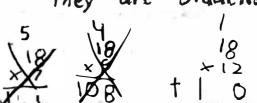
We estimated the



High **Estimate**

Any observations made after seeing the second video?

3x6 area They are staucked



Use this area for work, tables, calculations, sketches, to find the final solution-

Act 1

Ac

Act 3

Record any new information provided and calculate the final solution. Please be sure to label clearly.

Simulation and revise or word to be an anomalous position and the solution of the solution of the solution.

What was the final result?

Any observations made after seeing the second video?

Main Focus Question 170

198 sugar cubes in one full box,

Date___3-20-19

What que	estions co	me to your	mind as a m	athematici	an when se	eing this vi	deo?		
· How	many	sug	ar	cuk	es	are	there?	l.	
·Why			he	SF	10 W	us	the	Side	OF
the	F	20X ;	٠,	Lho.	Sug	jar (cubes	For?	

the Sugar cubes For?

Main Focus Question How many Sugar cubes are in the Box

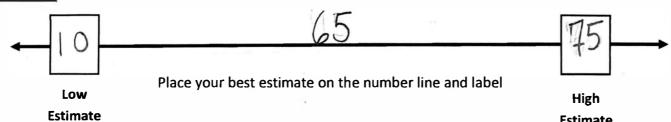
Estimate

Act 2

What information would you like to know or need to know to solve the problem? Size?

Are all sugar cutes the ·will they fill to the top or half way?
·whats the volume of the bx?
·did some break?

Estimate:

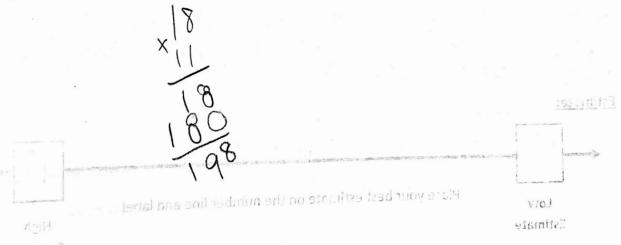


Any observations made after seeing the second video?

3×6=18

18x7=

Use this area for work, tables, calculations, sketches, to find the fin	11 ROWS 9!
180	What questions come to your mine as a ma
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Act 3 Record any new information provided and calculate the final solution and the solution of the solution o	ion. Please be sure to label clearly. 2 13 A 2 13 A 2 13 A 2 13 A



What was the final result?

198 Sugar

Cubes L

Date 2-21)-12

What questions come to your mind as a mathematician when seeing this video?

How many Suger cubes are there? How much does the box of suger rubes wrigh? How much does a rube of sugar weigh

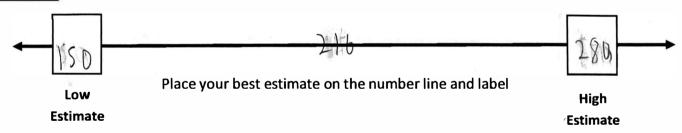
Main Focus Question How many Suger rubes are in the box

Act 2

and they make many and polyeried and calculate the Book solution. Please his sure for What information would you like to know or need to know to solve the problem?

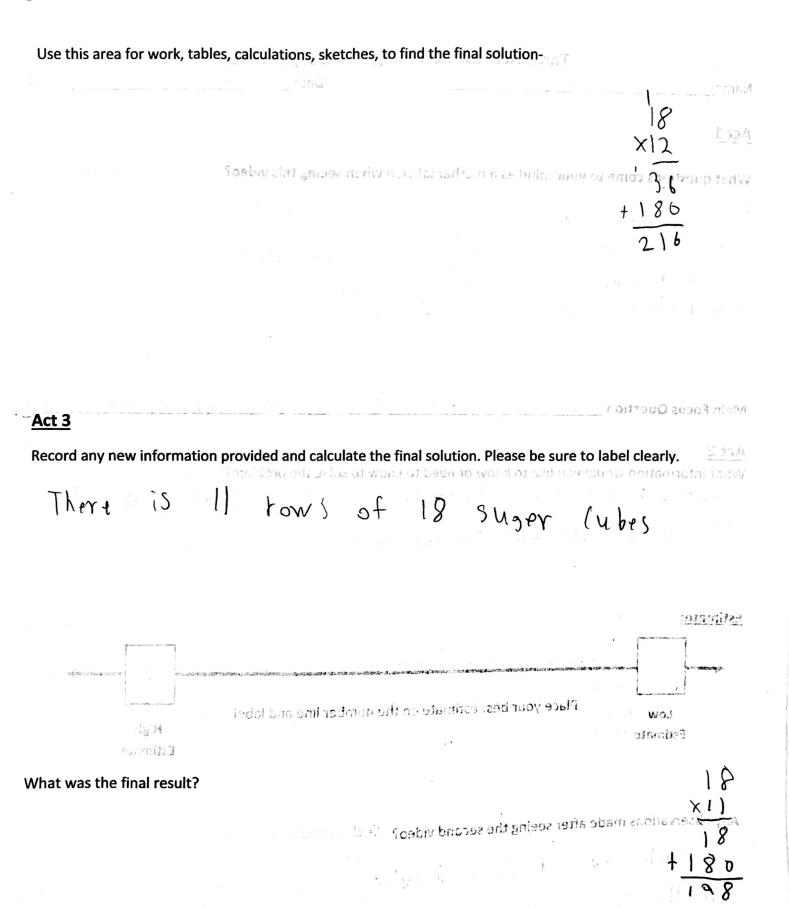
I would like to know the length the width and the height the Sugar Cute and the box

Estimate:



Any observations made after seeing the second video?

On each layer there is 18 cubs. On the sides there is 3 cubes an on the front there is & cubes.



Three Act	Task	Recording	Sheet:	Sugar	Cubes
			,		

Name.

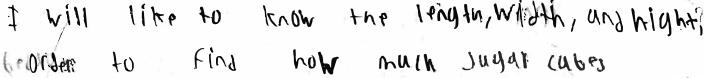
Act 1

What questions come to your mind as a mathematician when seeing this video?

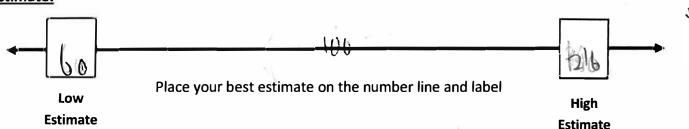
Main Focus Question HUW MILLY SUGAT CUBES DULS at & there in the Box?

Act 2

Mhat information would you like to know or need to know to solve the problem?



Estimate:



Use this area f	for work,	tables, calculat	ons, sketcl	hes, to find the f	inal solution	on- WIT	
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Date 3/20/19

What questions come to your mind as a mathematician when seeing this video?

How much sugar dues it contain?

Are there any other shapes that you can make it in to instead of cubes.

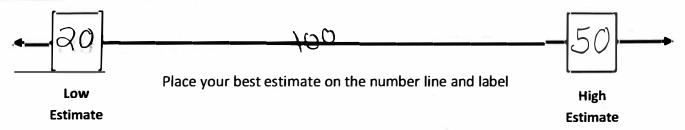
Main Focus Question How many Sugar Cubes are in that box?

Act 2

What information would you like to know or need to know to solve the problem?

I would like to know Length, the width, and the height because you need to know the height of the cube to figure out how tall the cube is.

Estimate:



Any observations made after seeing the second video?

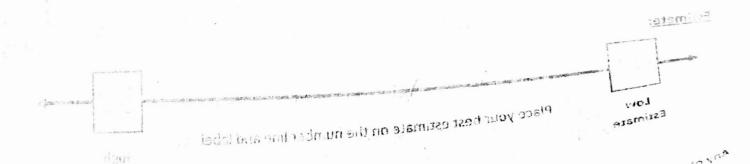
Some observation that I made was there was 6 out the bottom and 3 on the side which is 18 because 6x3=16 but there is other cubes on the bottom holding it up which makes it more than 18 cubes or segar cubes.

Use this area for work, tables, calculations, sketches, to find the final solutionemsM Liba What questions come to your mind as a methamatician when seeing this video?

Act 3

Record any new information provided and calculate the final solution. Please be sure to label clearly.

Guing dun and 3 going up and a going over so I would multiply 11 × 6 = 66 and then 66×3 = 198.



What was the final result?

Estimate

the second video!

Date March 20, 2019

What questions come to your mind as a mathematician when seeing this video?

how many cubes are left in the box? how much does one cube weigh? how much sugar does it contain?

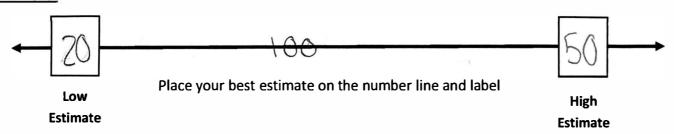
Main Focus Question Haw many Sugar Cubes Ove in the box?

Act 2

What information would you like to know or need to know to solve the problem?

I would like to know the length, width, and the hight to find the length of the box?

Estimate:



Any observations made after seeing the second video?

There are 3 Cubes and 6 cubes.

Use this area for work	k, tables, calculations, sketches, to	find the final solution-	dT ·	
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	an when seeing this video?	TO AS A PERSONAL SERVICES	7 36	anh reus
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Act 3

Main Focus Ouestion

Record any new information provided and calculate the final solution. Please be sure to label clearly.

There are 11 layers of 18 cubes in each wayer of the cubes.

Fitimate:

Place your best estimate on the number one and label

Lyw

Estimate

Estimate

What was the final result?

Act 1

What questions come to your mind as a mathematician when seeing this video? are 10 one box! Sugal The Sugar cubes the same Sugar cubes fill Main Focus Question How many Sugal Cubes are in one box Act 2 What information would you like to know or need to know to solve the problem? We need to figure out the size of each sugar we need to figure out how big the box Cube. Estimate: 15 Place your best estimate on the number line and label Low High **Estimate Estimate** Any observations made after seeing the second video?

Use this area for work, tables, calculations, sketches, to find the final solution-1 104 Main Focus Question Act 3 Record any new information provided and calculate the final solution. Please be sure to label clearly. We at in ermation would you like to know or need to know to solve the pr Estimple: Place your best estimate on the number line and laber Wo! Estimate What was the final result? Any observations made atter seeing the second video?

Name___

Date

Act 1

What questions come to your mind as a mathematician when seeing this video?

much suyor outes are in The Box? Side S of the sugar cube the Same? How full is the Box? How Mach Sugar is the cabe made of? How many colories

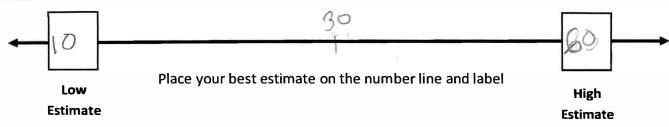
Main Focus Question How munt Sugar cubes are in the Box?

Act 2

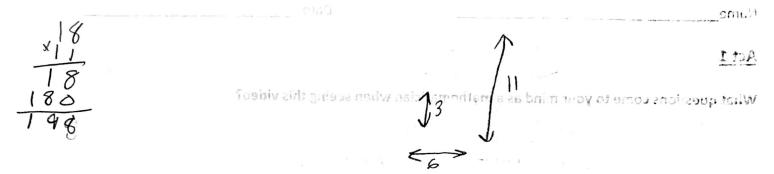
Record any convictorment approvided and adopters the final solution. Places be sure to lightful and if What information would you like to know or need to know to solve the problem?

Size of the sugar cubes? Size of the Box?

Estimate:



Use this area for work, tables, calculations, sketches, to find the final solution

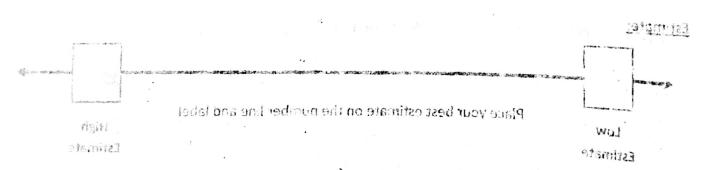


Main Focus Question

Act 3

Record any new information provided and calculate the final solution. Please be sure to label clearly.

Smelder and provided and calculate the final solution. Please be sure to label clearly.



What was the final result?

Any observations made after seeing the second video?

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Name		Date3/20119

Act 1

What questions come to your mind as a mathematician when seeing this video? How mony Sugar Cubes come in one box? How much does one box cost? Are the Sugar cubes the Same Size? Do the Sugar cubes fill to the top? How much does one box areigh? How much shoor is the cube made up of? How many caracies?

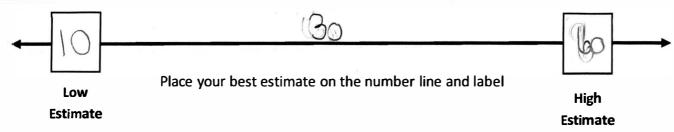
Main Focus Question How Mary Sugar Cabes are in 1 box

Act 2

What information would you like to know or need to know to solve the problem?

The Size of the Sugar Cubes. The Size of the box. Ob they Stach them?

Estimate:



become any new information, promond and calculate the implication. Please by succretical should

Any observations made after seeing the second video?

6x3=18 18x6=90

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Three Act Task Recording Sheet: Sugar	Cube	25
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Name

Date 3/20/10

Act 1

What questions come to your mind as a mathematician when seeing this video?

How many Sugar Cubes closs I bux hold? How much does one box cost? How big are the sugar cubes? Does the sugar cubes fill to the top of the box? How much sugar is the cube made of? How many calories?

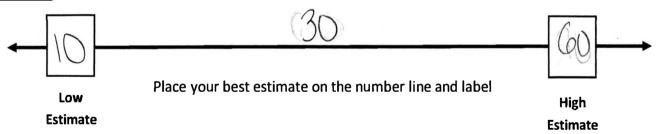
Main Focus Question How Many Sugar Cubes are in 1 box?

Act 2

What information would you like to know or need to know to solve the problem?

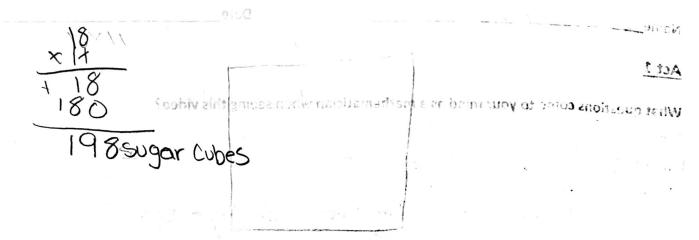
Find the size of a Sugar Cube The size of the box

Estimate:



Any observations made after seeing the second video?

6×3=1 16×6=108 18×5=90 Use this area for work, tables, calculations, sketches, to find the final solution-



Act 3

Main Focus Question

Record any new information provided and calculate the final solution. Please be sure to label clearly.

Smelders sat evice or work of bearing work or old you bloom not service in the AM.

Estimate:

Prace your best estimate on the number line and label

Low

Estimate

Estimate

What was the final result?

Three Act Task Recording Sheet: Sugar Cubes Date 3-20-19

Act 1

What questions come to your mind as a mathematician when seeing this video?

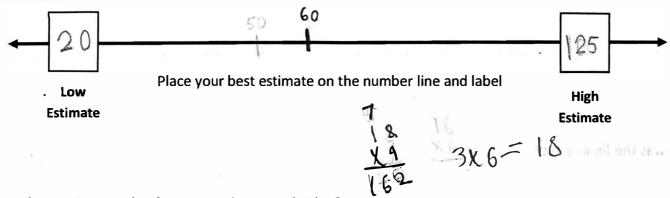
How many such cube is there in each box? Hon How many ingresients are in the suger? How much sugar is in each cube? Hew much does the fox of sugar cubes cost? How many groups of 4 ths are there? How many colories?

Main Focus Question How many Sugar cubes cafe there in the

Record are, new information atomices and calculate are final sclubon. Heart be accepted to table in

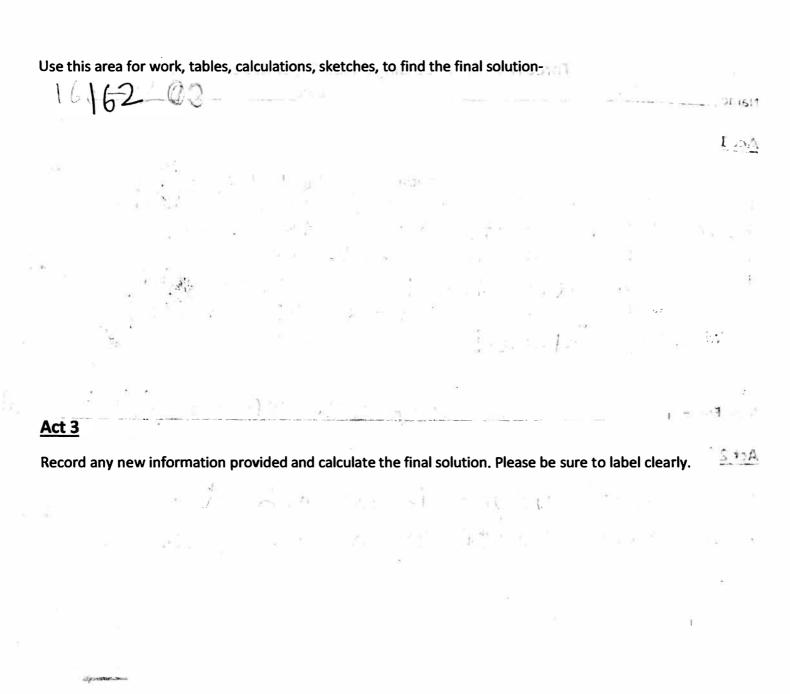
What information would you like to know or need to know to solve the problem? much volumes is in each or boxi. much sugar is in each sugar EULB?

Estimate:



Any observations made after seeing the second video? mide and 6 sugar cubes

5092 CUbes longo



This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Calculating Volume of Rectangular Prisms: Public Lesson. Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.

What was the final result?

1-19

Act 1

What questions come to your mind as a mathematician when seeing this video?

Whatis the volume of the box?

How many cubes of sugar are there?

How much closs each cube cost?

How many callelis is there.

How much sugar is in each sugar cube?

How much does the box of sugar cubes rost?

How many groups of 4ths are there?

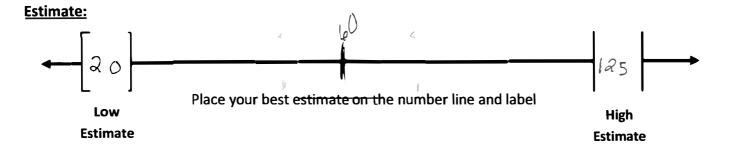
Main Focus Question How many sugar cubes are in the box.

Act 2

What information would you like to know or need to know to solve the problem?

How much volume is in each sugar cube. (LxWxH)

How much volume is in the box. (LxWxH)



Any observations made after seeing the second video?

3 sugar cubes vide a rel 6 cubes long.

18
3×6×9 1: 162 cubes 7

Use this area for work, tables, calculations, sketches, to	IB a find the final solution 2//	
162	+180	i isla
	198	i Tin

Act 3

Record any new information provided and calculate the final solution. Please be sure to label clearly.



What was the final result?

Date 3-20-19

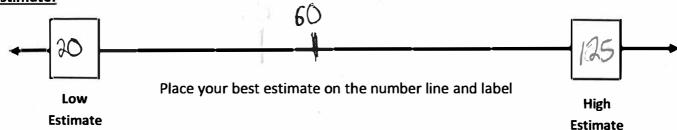
What questions come to your mind as a mathematician when seeing this
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How many calories?
How many avoups of 4ths are there?
What is the volume of the box?
How much sugar in each sugar cube?
How much does each sugar cube cost?
How many ingredients are in the sugar?
How much does the box of sugar cubes cost?
Main Focus Question How many sugar cubes are in the

What information would you like to know or need to know to solve the problem?

How much sugar is in a sugar cube? (LxwxH)

Estimate:



Any observations made after seeing the second video?

3/ Sugar cudes wide and 6 sugar cudes long. 3x6=18 x18 11 sugar cubes