



the **BIG BANG THEORY**™

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THE BIG **BANG** THEORY

Drs. Leonard Hofstadter and Sheldon Cooper are brilliant physicists – geniuses in the laboratory, but socially challenged everywhere else. Enter beautiful, street-smart neighbor, Penny, who aims to teach them a thing or two about life. Despite their on-again, off-again relationship in the past, Leonard and Penny have finally gotten engaged. Even Sheldon has found a female companion – entering into a “Relationship Agreement” with neuroscientist Amy Farrah Fowler. In their free time, Leonard and

Sheldon enjoy fantasy role-playing games with their ever-expanding universe of friends, including fellow scientists Rajesh Koothrappali, Howard Wolowitz, and Howard’s adorable microbiologist wife, Bernadette.

Set in Pasadena, California, *The Big Bang Theory* was created by Chuck Lorre and Bill Prady, who are executive producers along with showrunner Steven Molaro. The series premiered on CBS in 2007 and is currently in its eighth successful season.





LEONARD

Leonard is an experimental physicist with an IQ of 173 who received his PhD at the age of 24. Originally from New Jersey, Leonard comes from a family of accomplished scientists. His mother is a world-renowned psychiatrist, his father is an anthropologist, his brother is an attorney who's argued cases before the Supreme Court, and his sister is a biologist. Leonard shares an apartment with his friend and colleague Sheldon Cooper.



SHELDON

He's a smart guy. Originally from East Texas and a child prodigy, he started college at the age of 11 and received his first doctorate at age 16. Today, he's a top theoretical physicist at Caltech. Sheldon's great loves are science and science fiction, although he has now entered into a "Relationship Agreement" with his girlfriend, neurobiologist Amy Farrah Fowler.



PENNY

Penny is Leonard and Sheldon's street-smart neighbor from across the hallway. Outgoing and self-assured, Penny's personality often contrasts with that of the guys. Originally from a small town in Nebraska, she worked as a waitress at a local restaurant while aspiring to become an actress. Now she has a job as a sales representative with a pharmaceutical company and is engaged to Leonard. Penny is also good friends with Amy and Bernadette, and the three of them often hang out in Penny's apartment.



AMY

Amy is a neuroscientist with a PhD in neurobiology and Sheldon's girlfriend. They share many of the same traits, both being extremely rational and sometimes awkward in social situations, so much so that Sheldon has created a 31-page "Relationship Agreement" for them. Amy is also best friends with Penny and Bernadette, who have helped her fit in better – more or less.



RAJ

Originally from New Delhi, India, Raj is Howard Wolowitz's best friend. He works as an astrophysicist at Caltech where he specializes in particle astrophysics. Like his friends, Raj is passionate about science fiction and comic books, and is also a big fan of Harry Potter. Raj's one claim to fame is that he once discovered a planetary object beyond the Kuiper Belt. Though much more confident than he used to be, he is still very shy around girls.



HOWARD

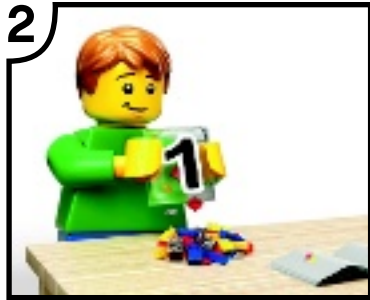
Howard is an aerospace engineer at Caltech's Department of Applied Physics with a master's in engineering from MIT. Unlike Leonard, Sheldon, and Raj, Howard has no doctorate, preferring the practical endeavors of engineering to the theoretical work of his friends. His skills as an engineer eventually allow him to fulfill his dream of becoming an astronaut. Howard marries his girlfriend, Bernadette, shortly before he leaves on his mission to visit the International Space Station.



BERNADETTE

Bernadette is a microbiologist and also Howard Wolowitz's wife. She became friends with the others while waitressing at the same restaurant as Penny to pay for her graduate studies in microbiology. Though generally friendly and good-natured, she can also be quite intimidating when she has to be. While Bernadette claims she can safely handle the world's most dangerous viruses, not all her experiments in the laboratory end successfully – as her time in quarantine demonstrates.





LEGO.com/brickseparator

$$\frac{-m+1}{(p-2)^2}$$

$$\frac{p^3}{F(p)(p-2)^m}$$

Cn 211

(n-1)

= l

(1/p)

(1/p)

(1/p)

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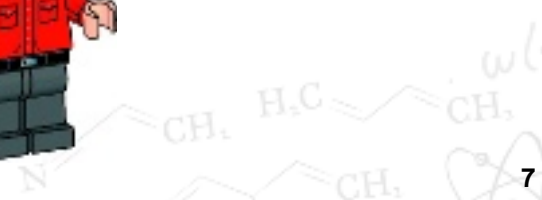
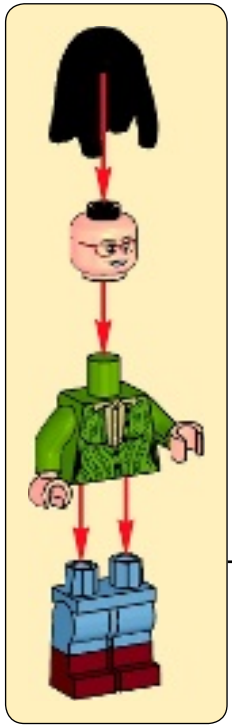
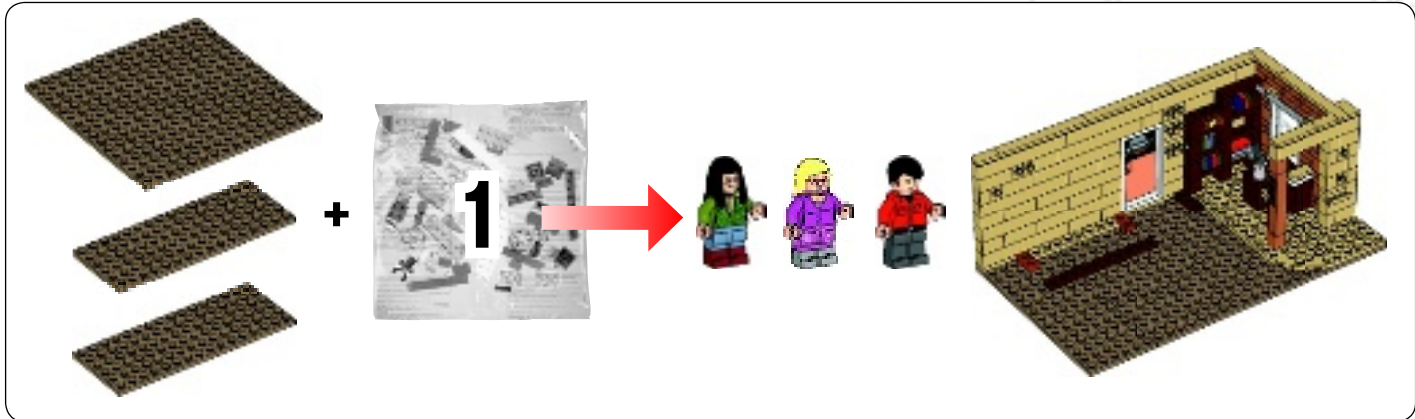
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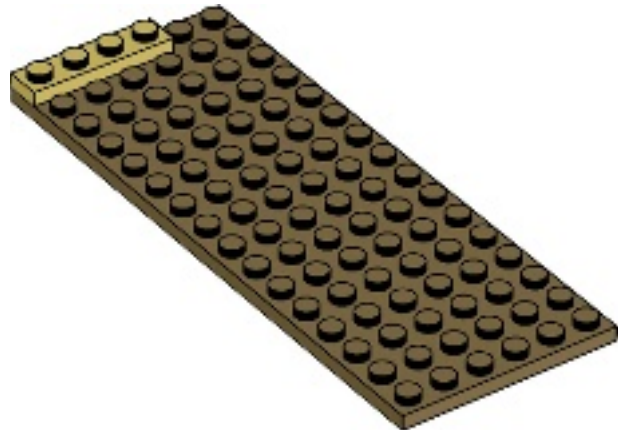
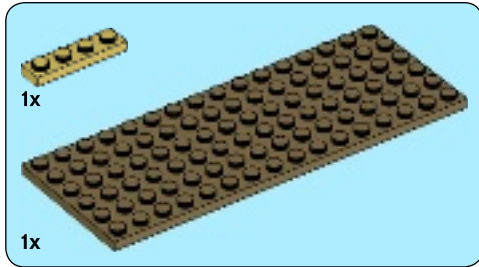
(1/p)

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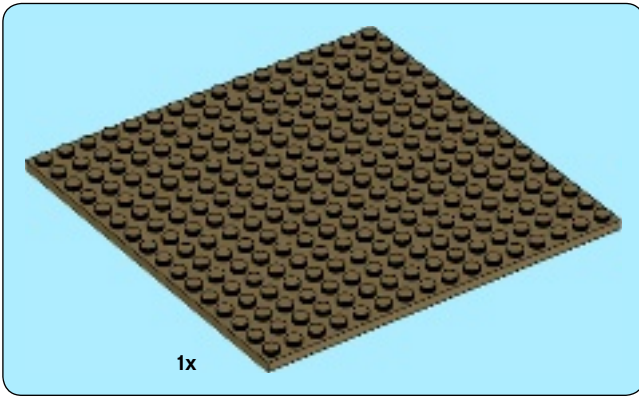
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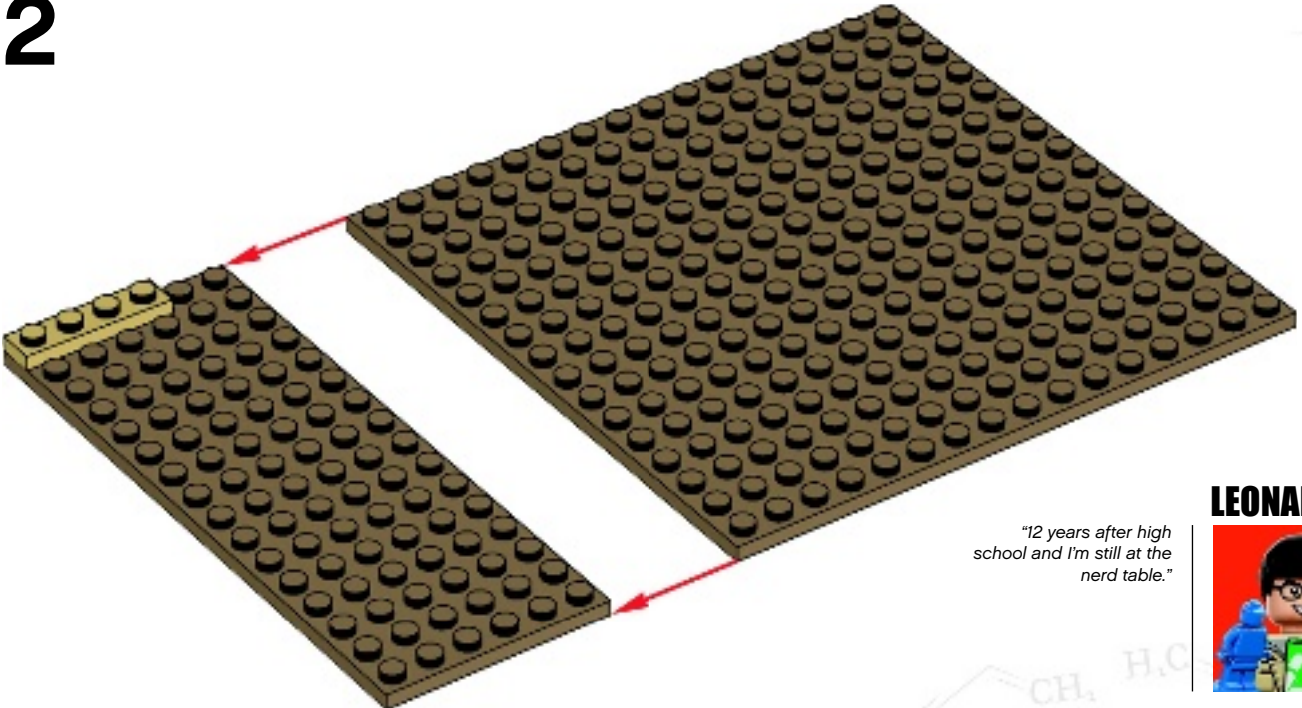


1

$$\frac{-m+1}{(p-2)^m} = \frac{p^3}{F(p)(p-2)^m}$$



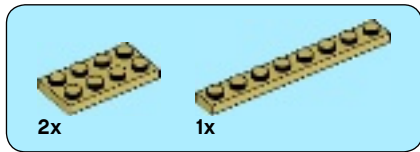
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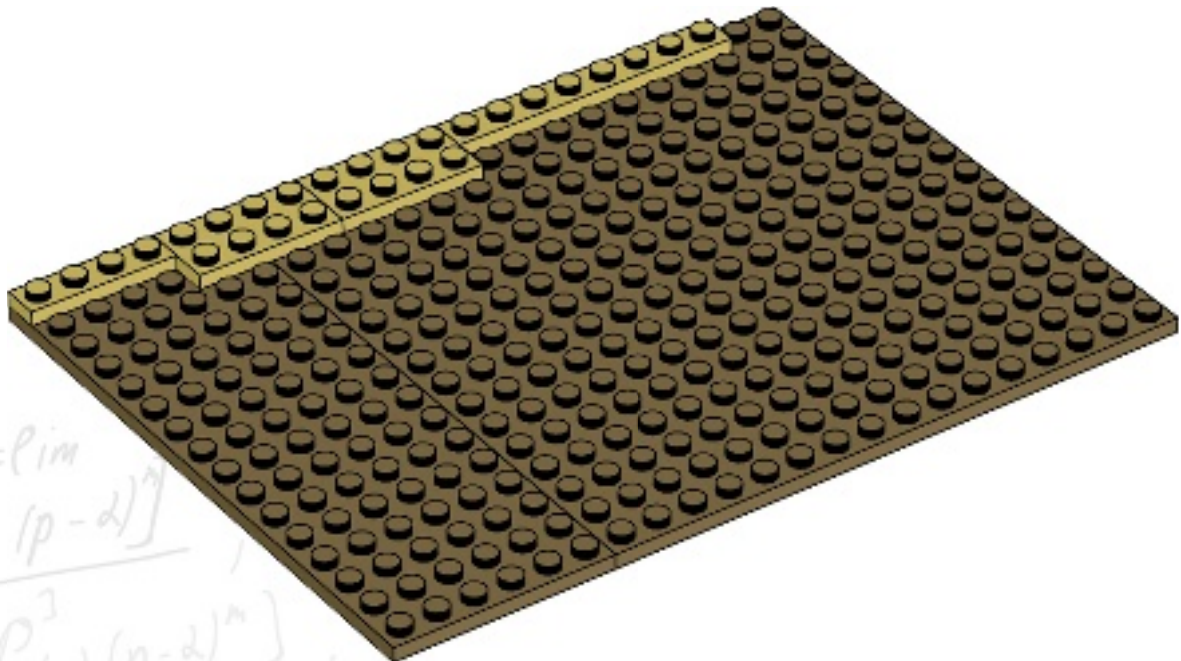
LEONARD

"12 years after high school and I'm still at the nerd table."

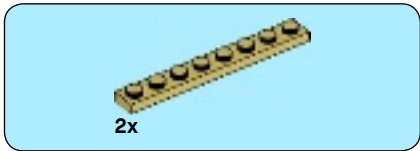




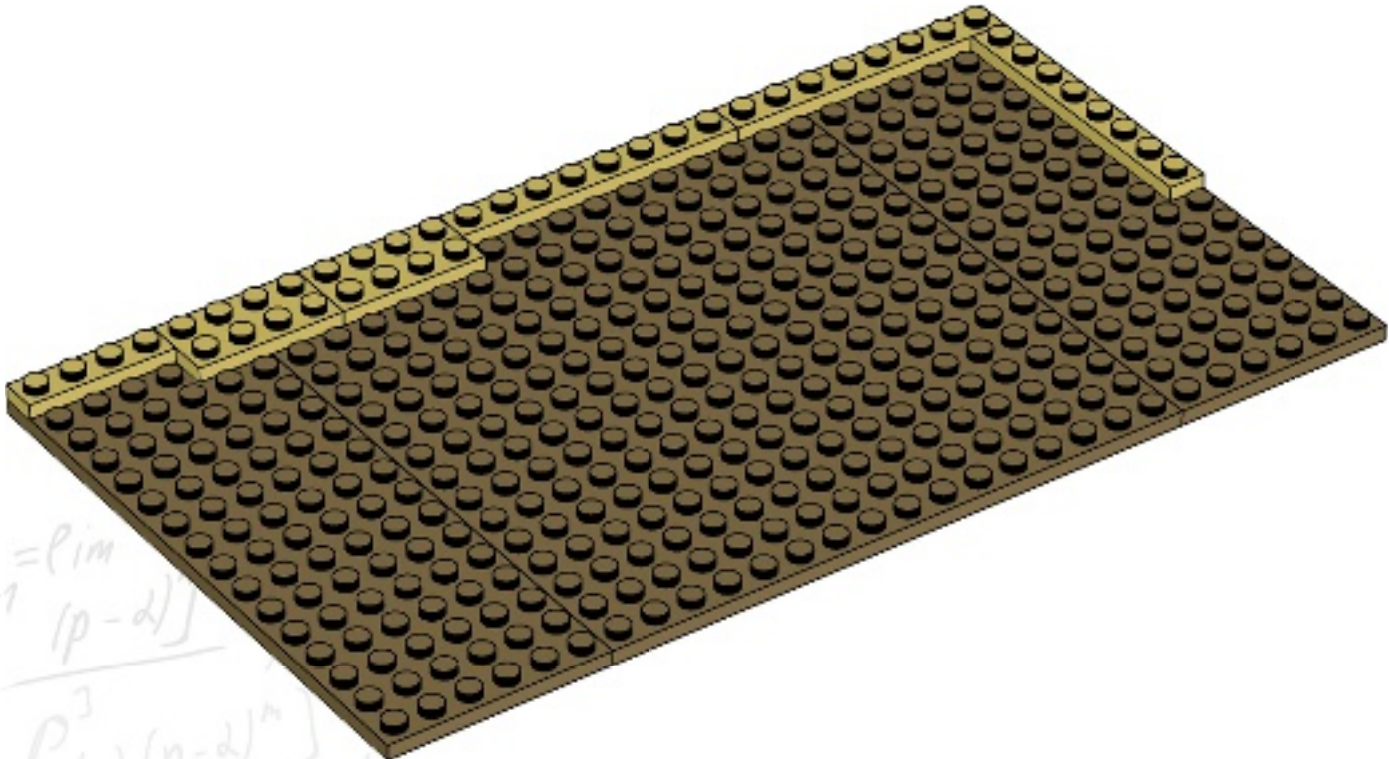
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2
-m+1 = p im
 $(p-2)^m$
 p^2
 $F(p)(p-2)^m$



5



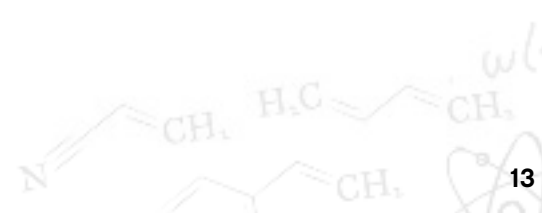
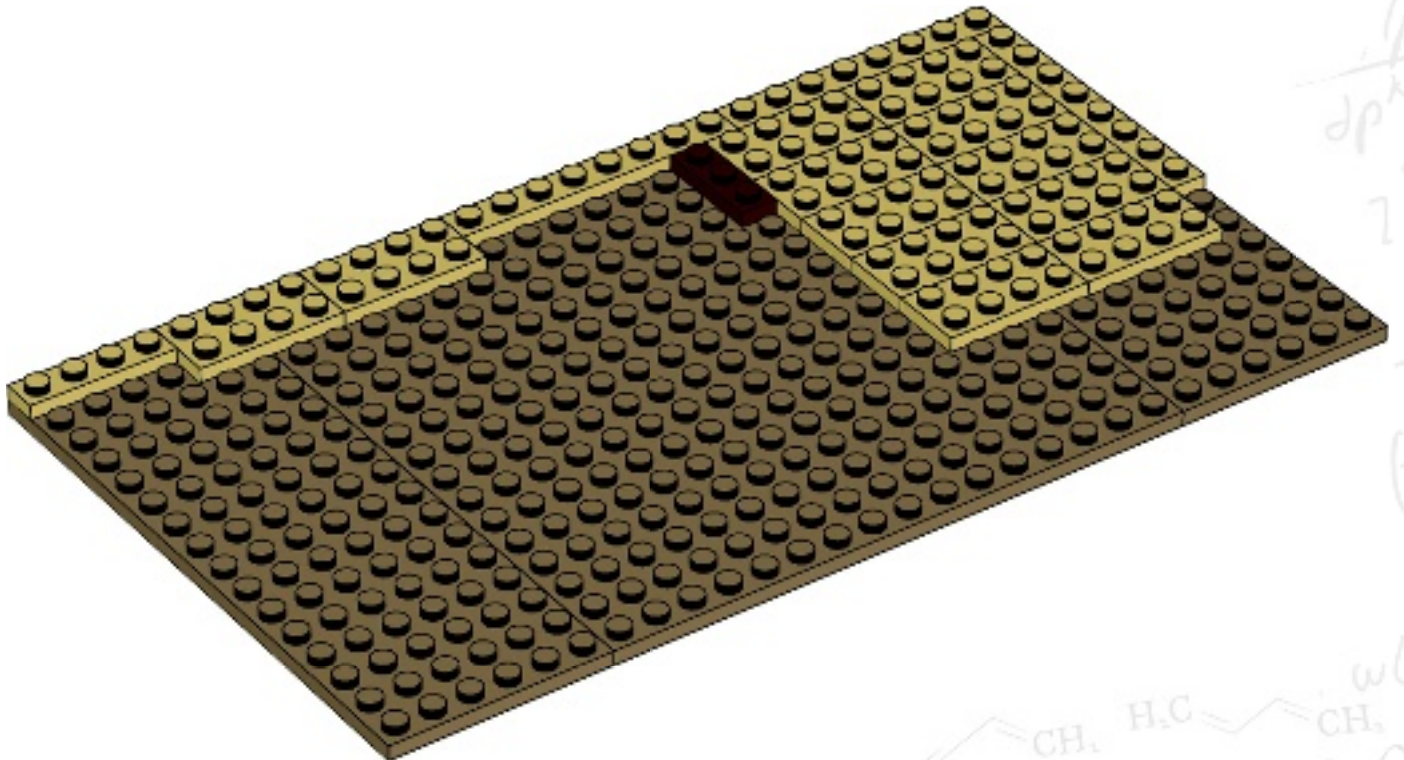
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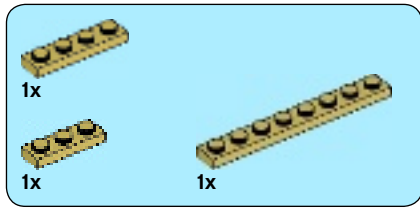
$= p \cdot m$
 $-m+1$
 $(p-d)$

p^3
 $F(p)(p-d)^m$

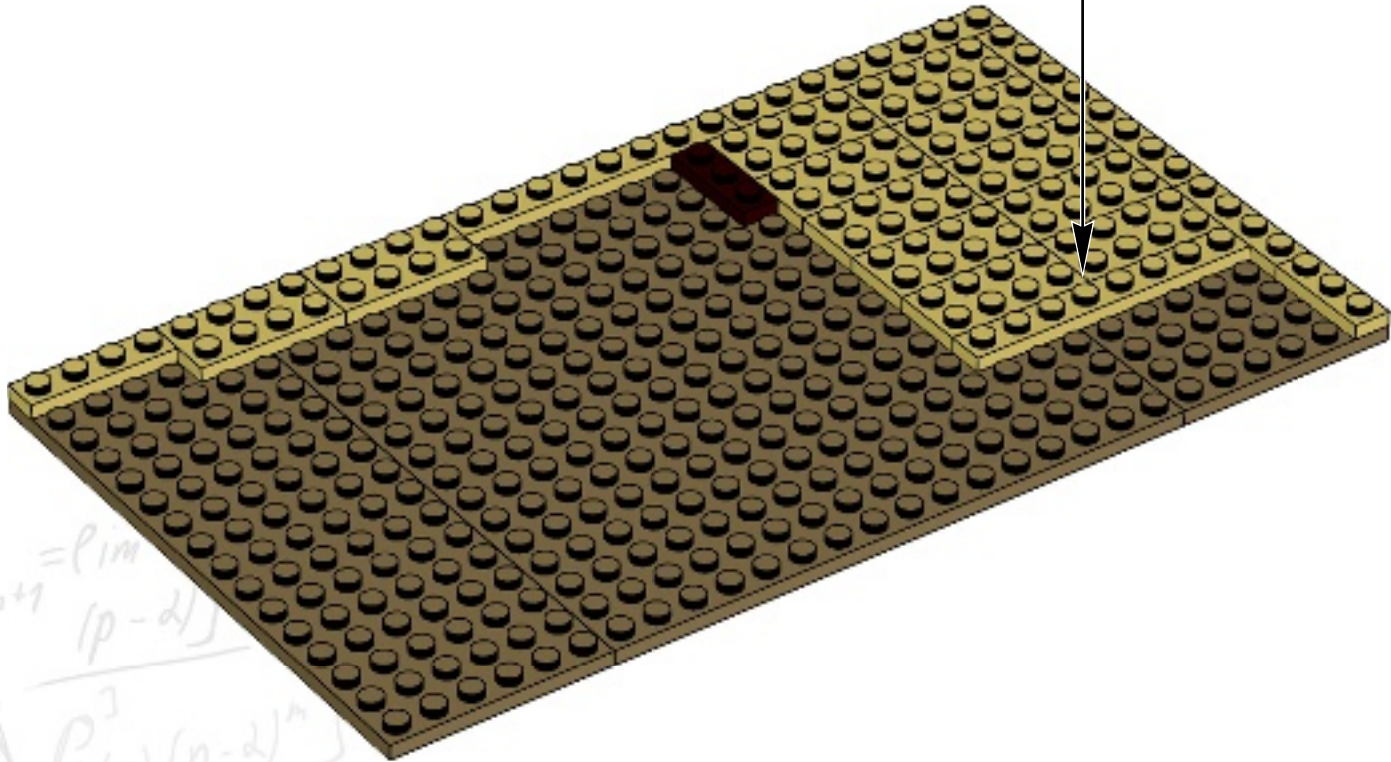
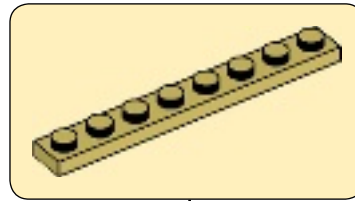


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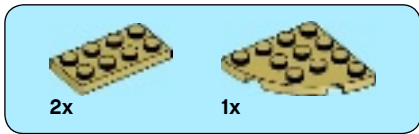




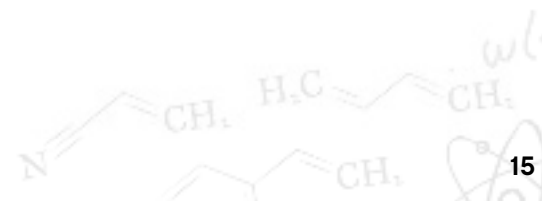
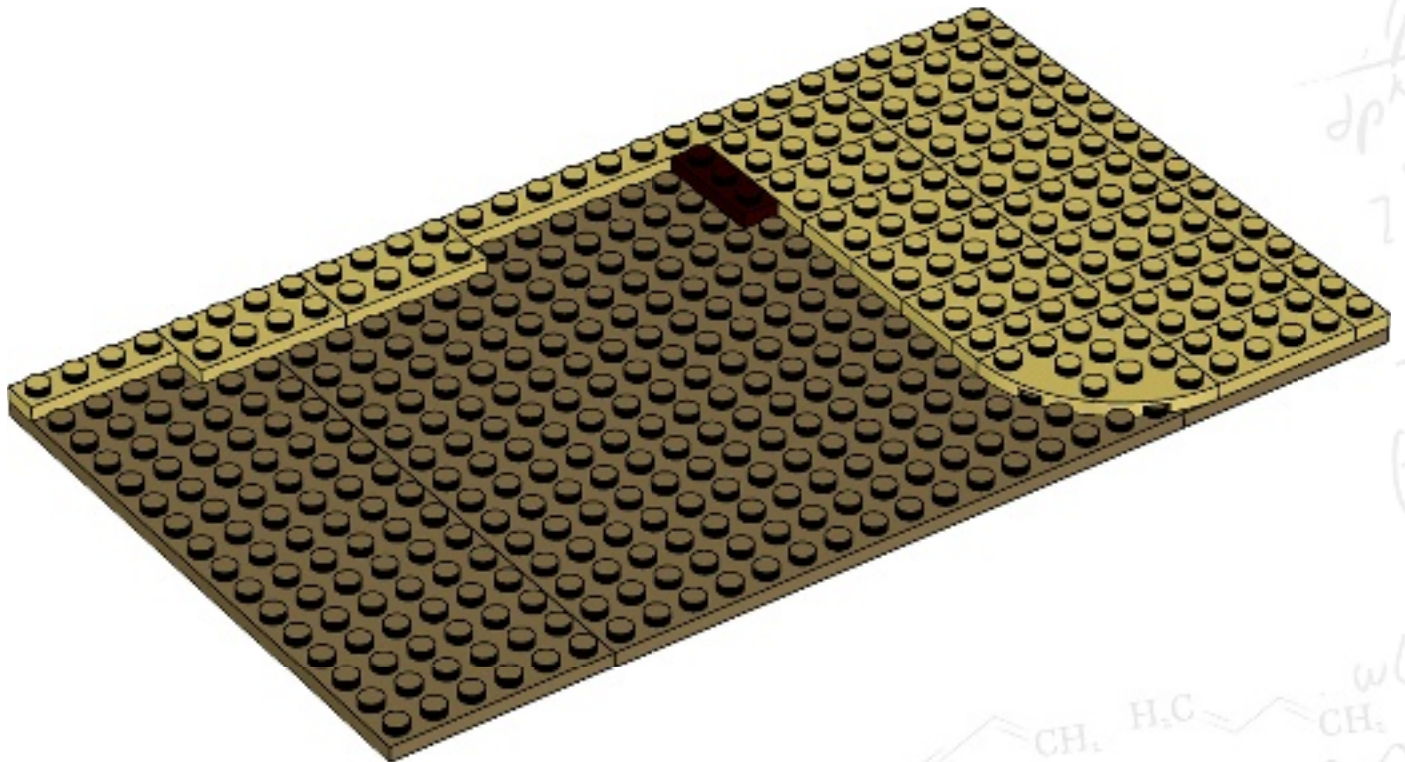
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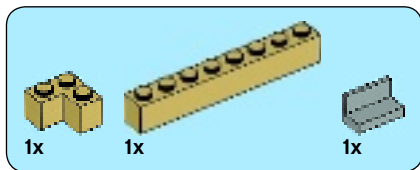


2
 $= p \cdot m$
 $-m+1$
 $(p-2)$
 p^3
 $F(p)(p-2)^m$

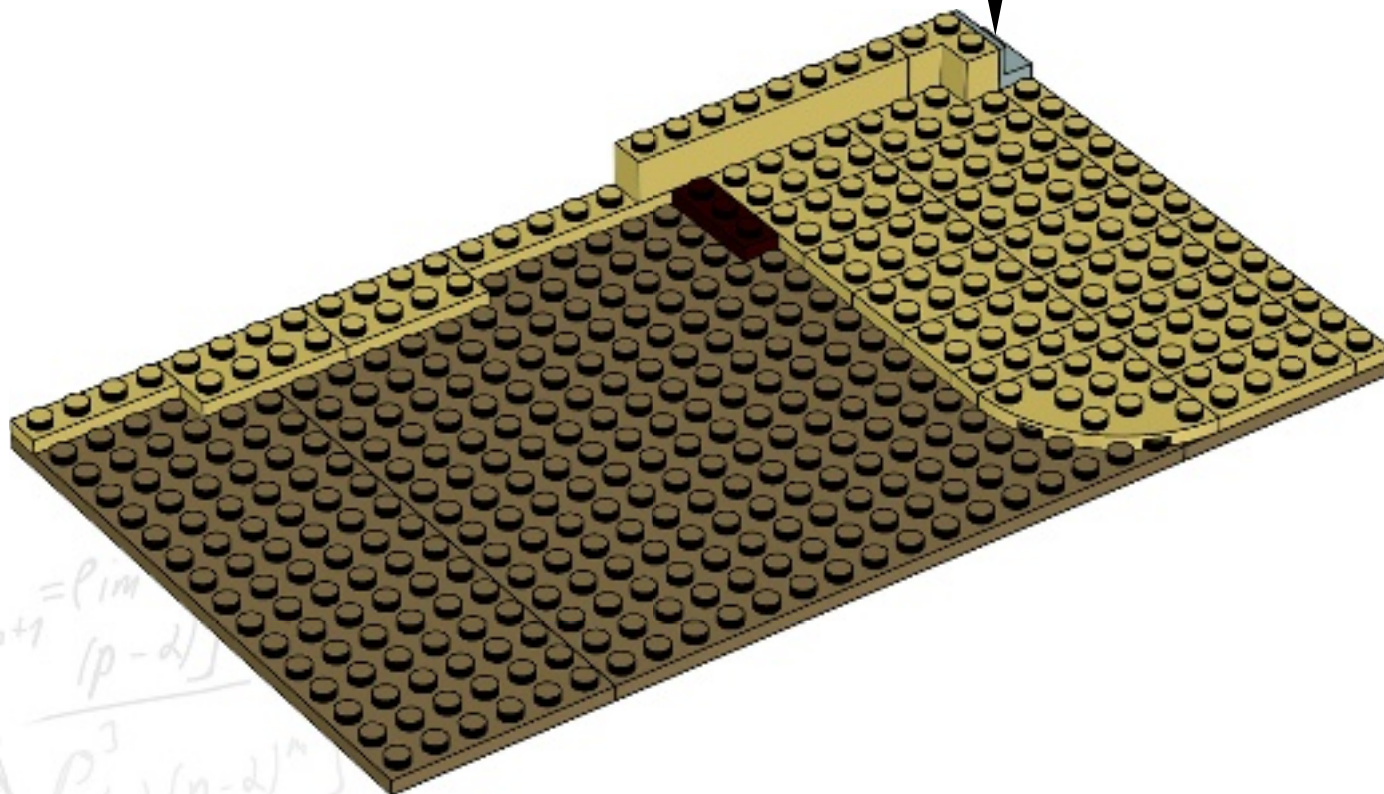
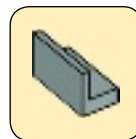


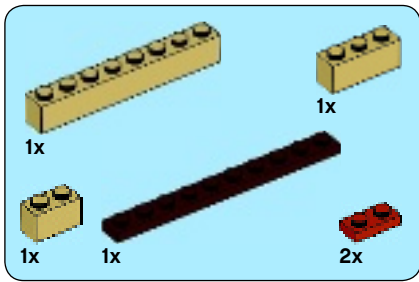
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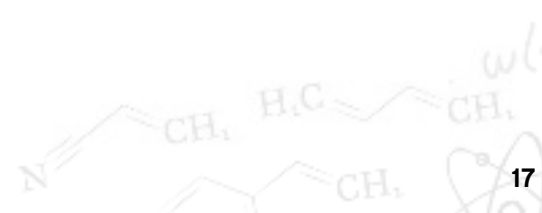
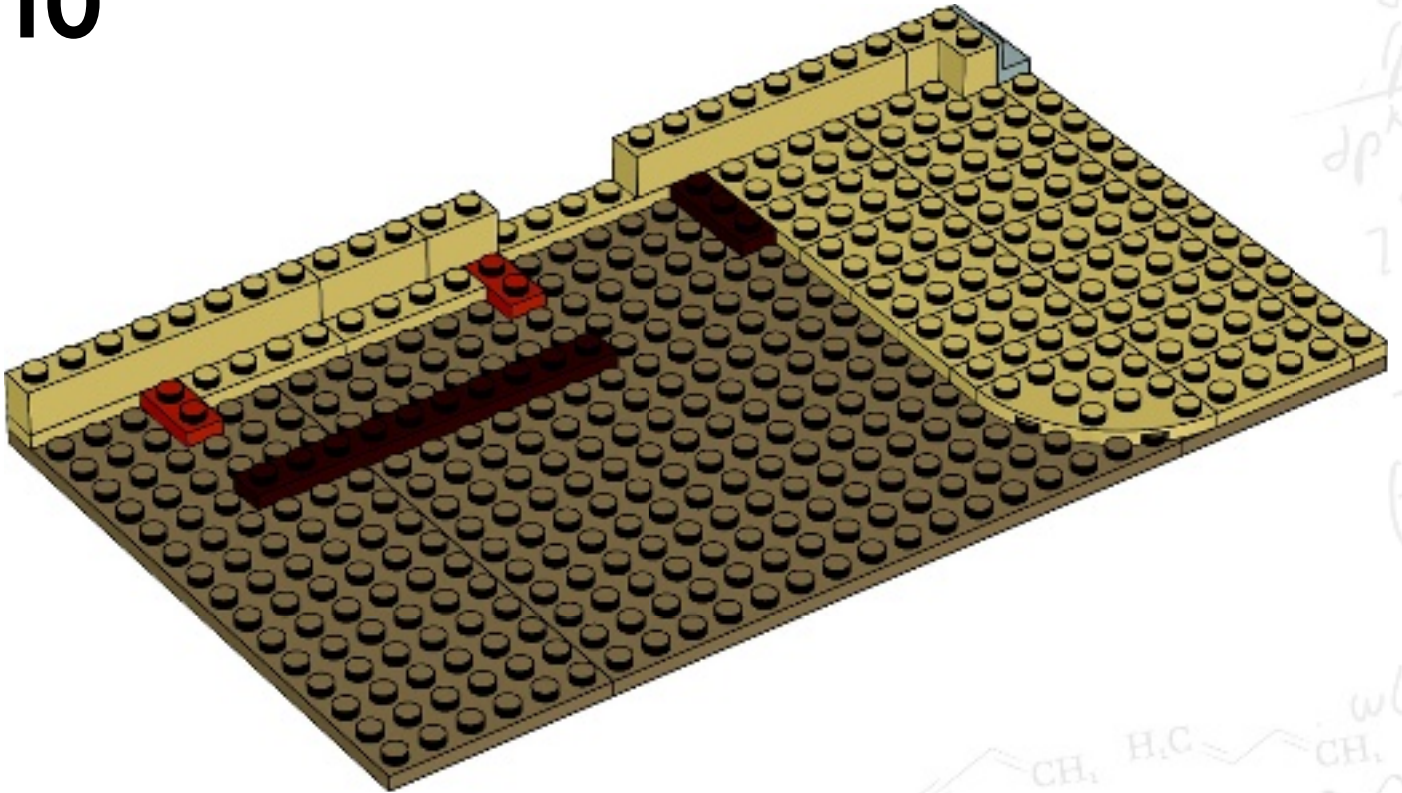


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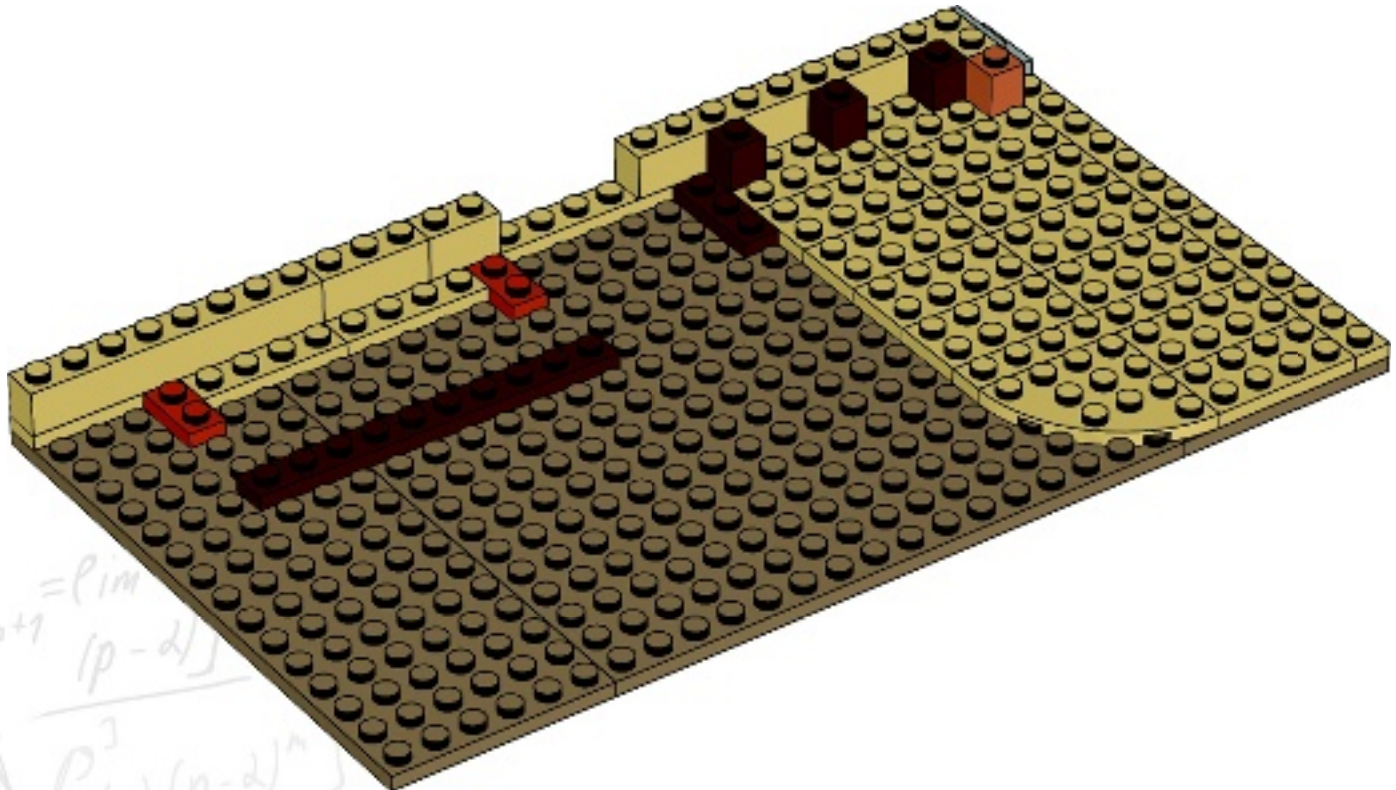


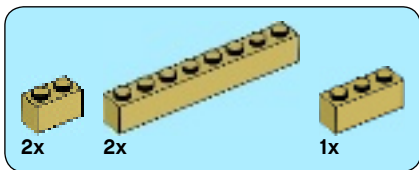
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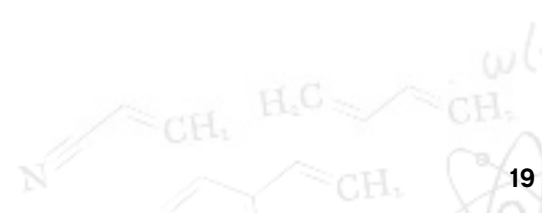
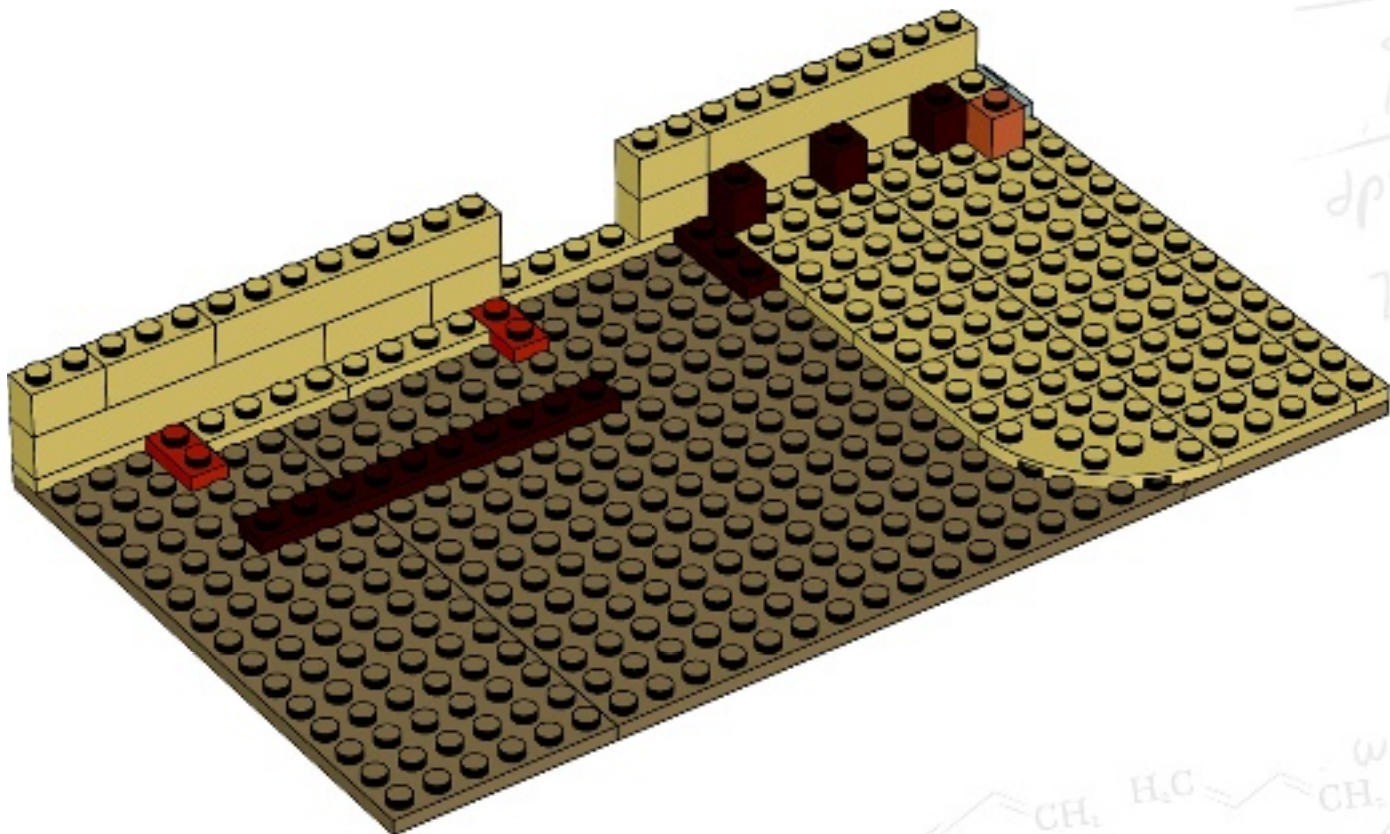
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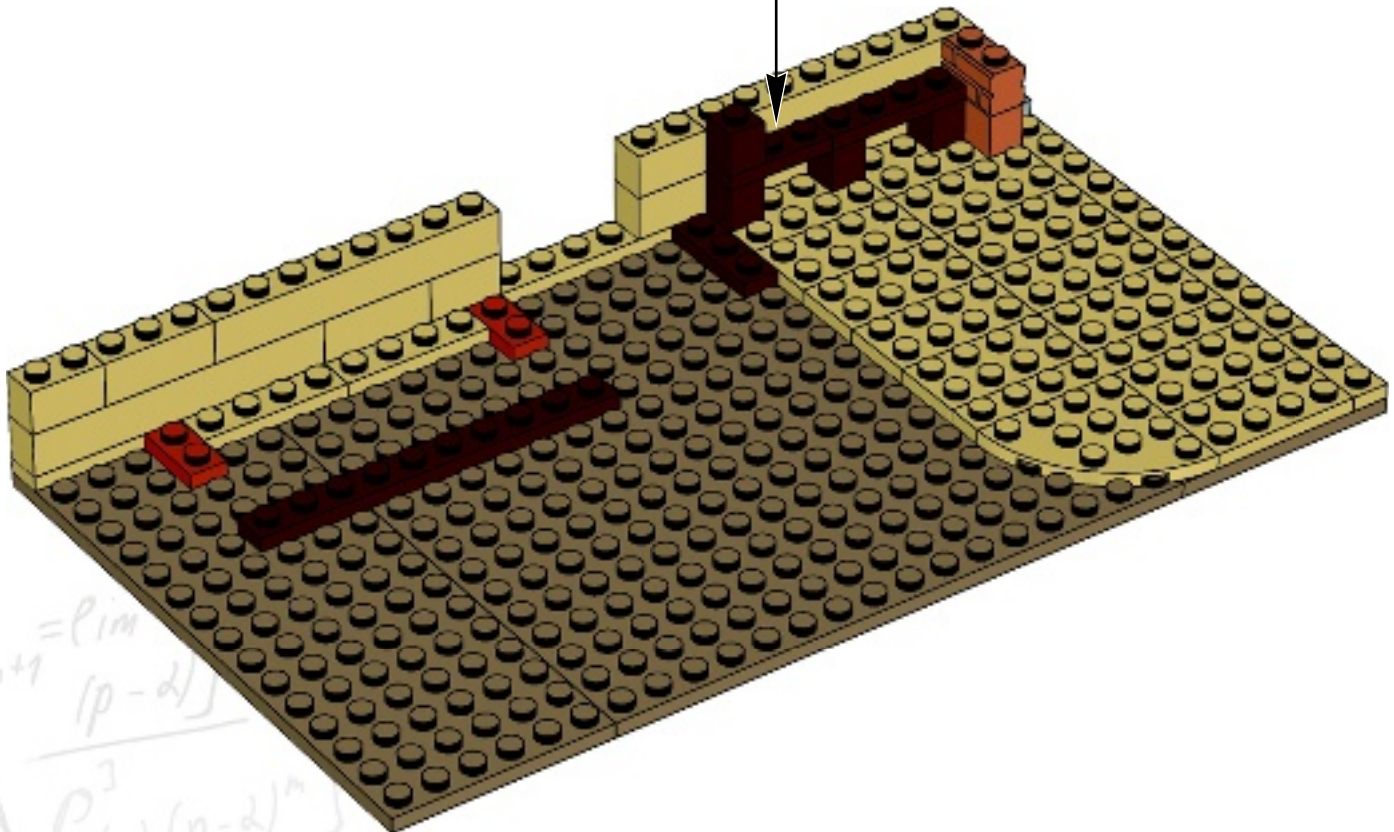
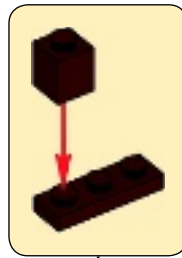


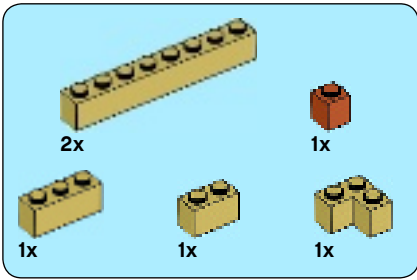
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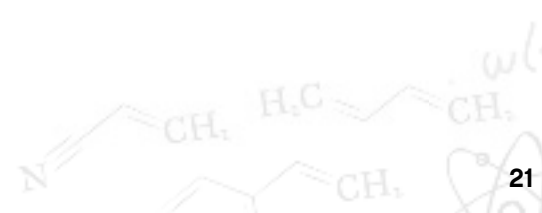
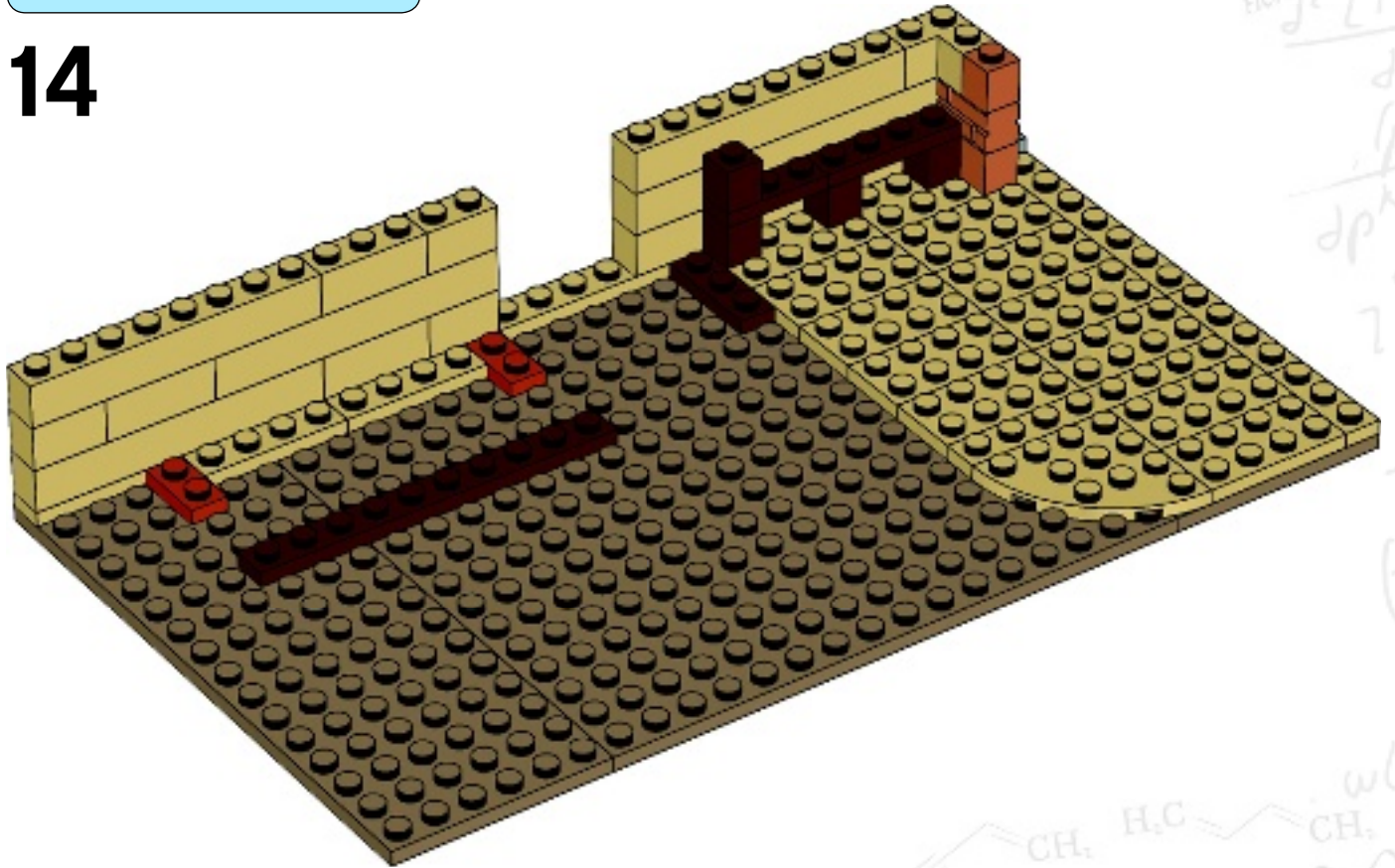


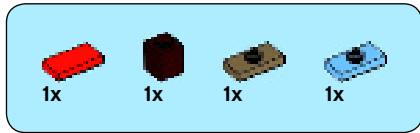
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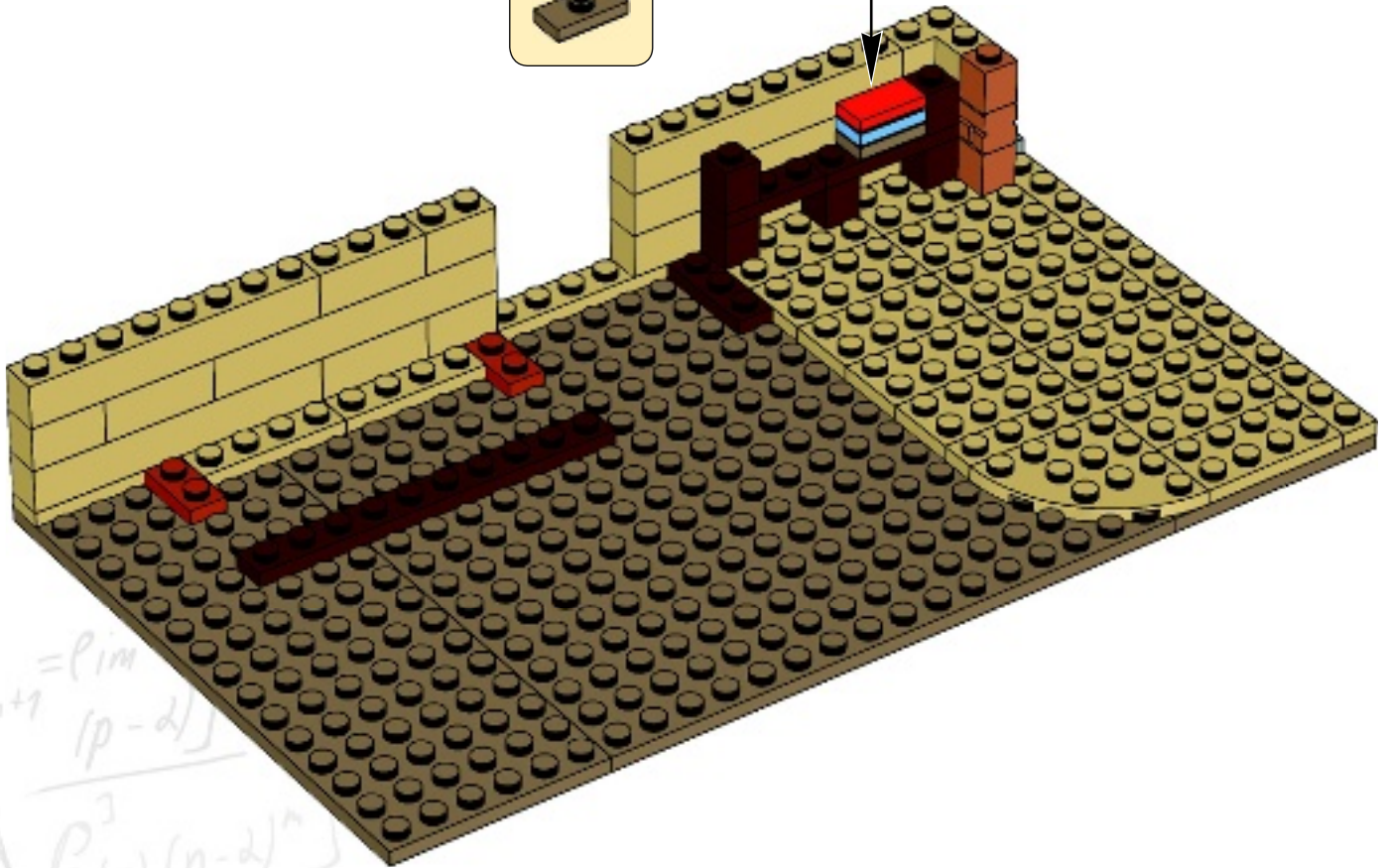
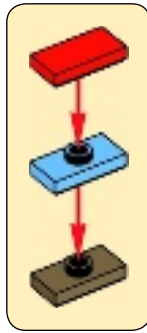


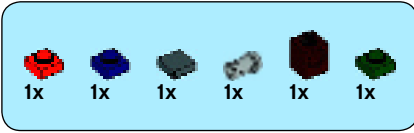
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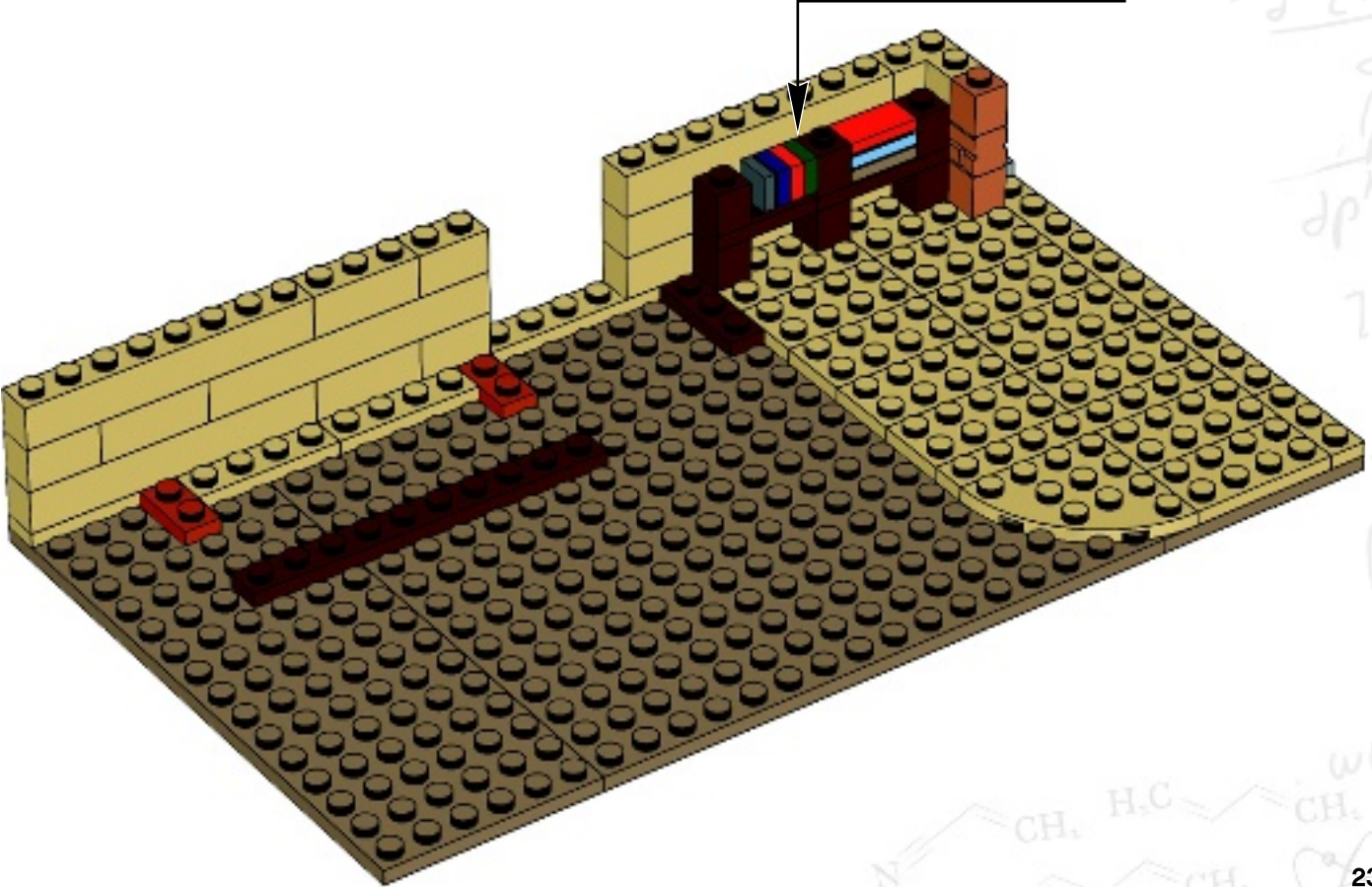
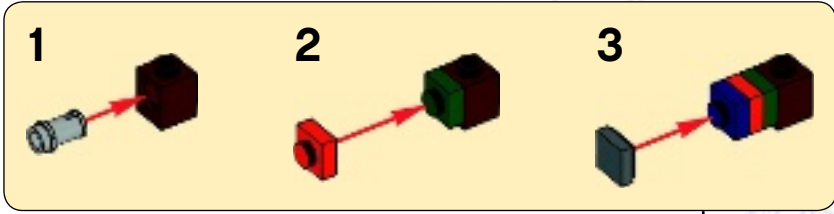


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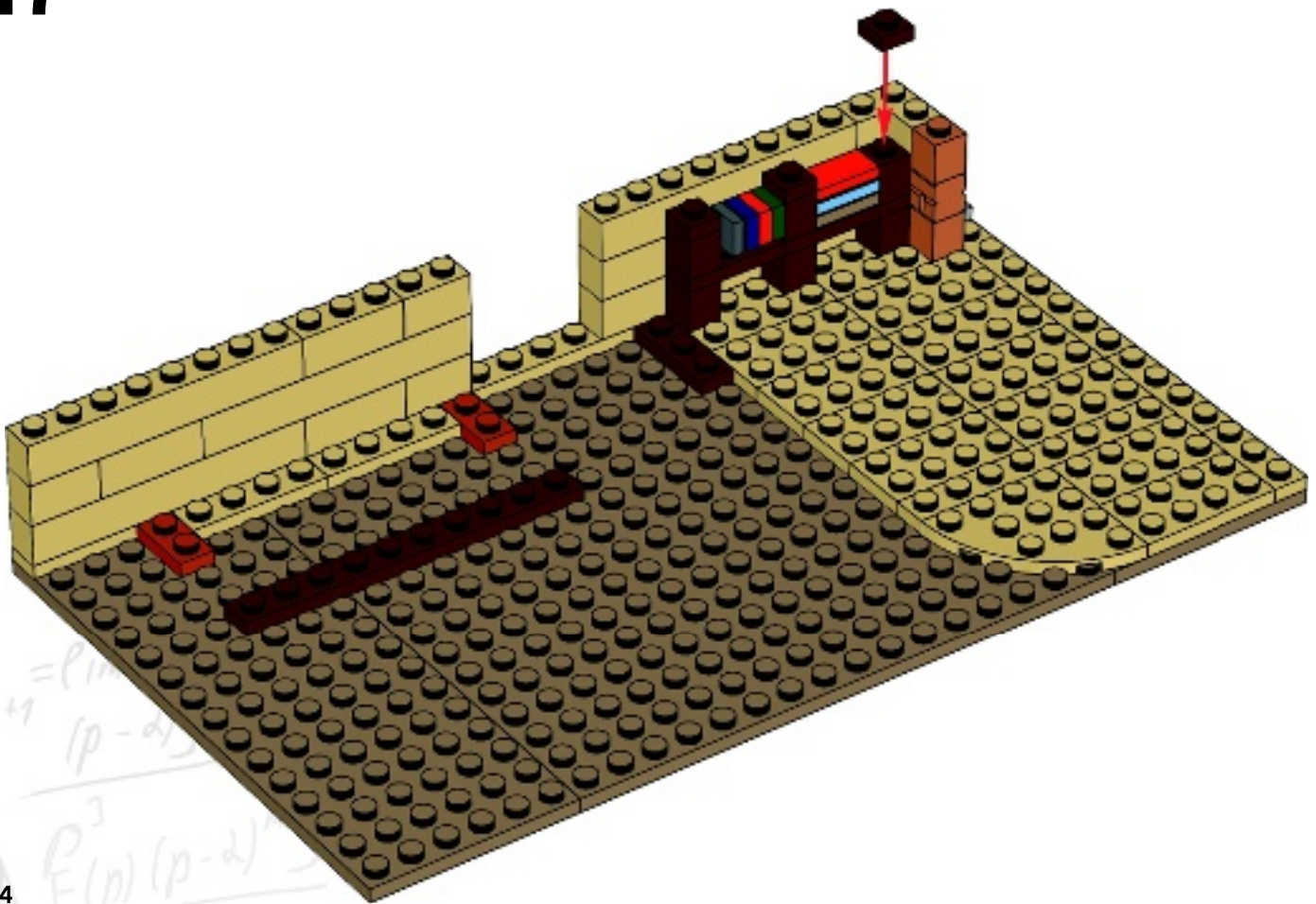
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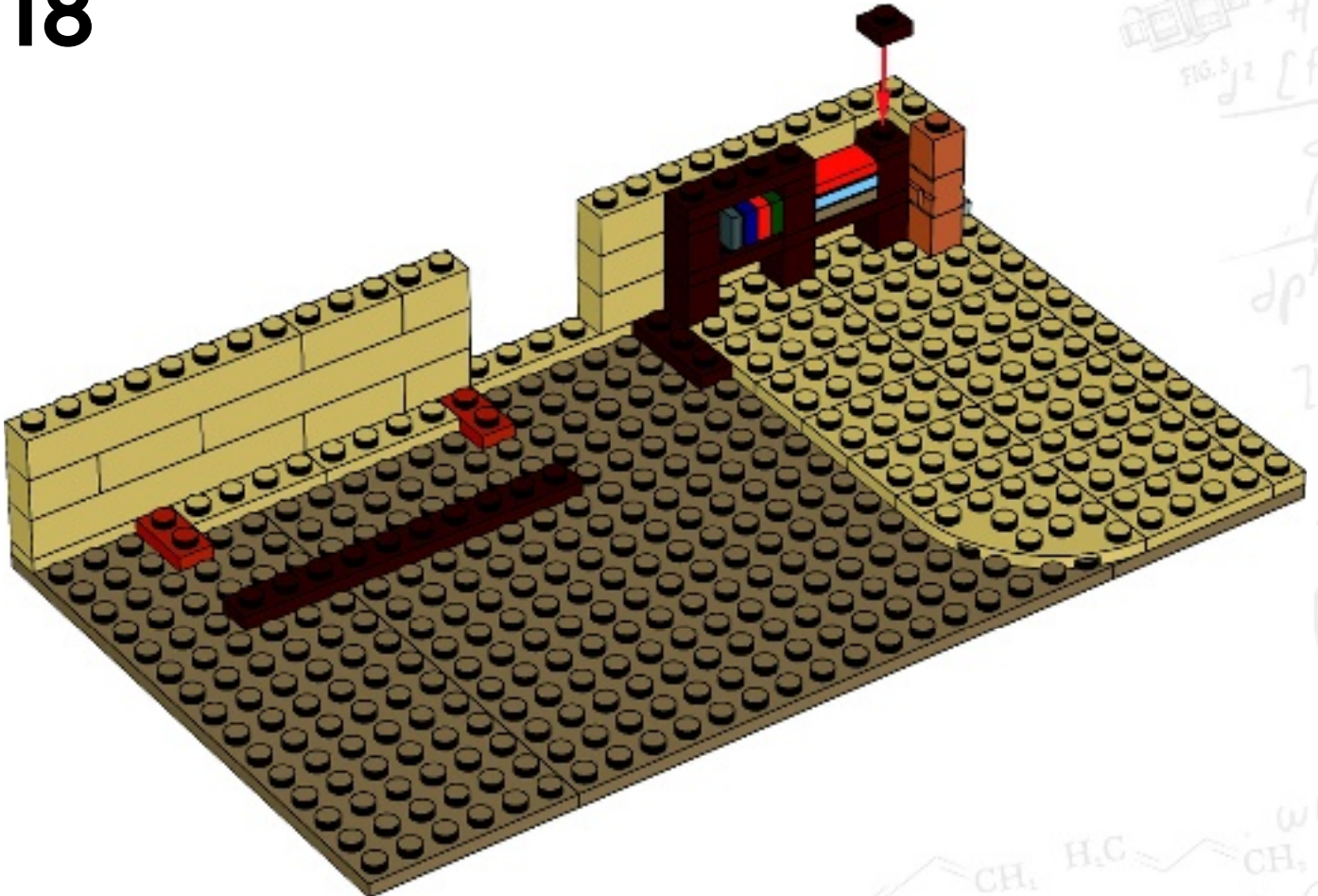
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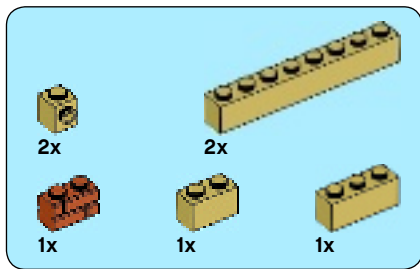




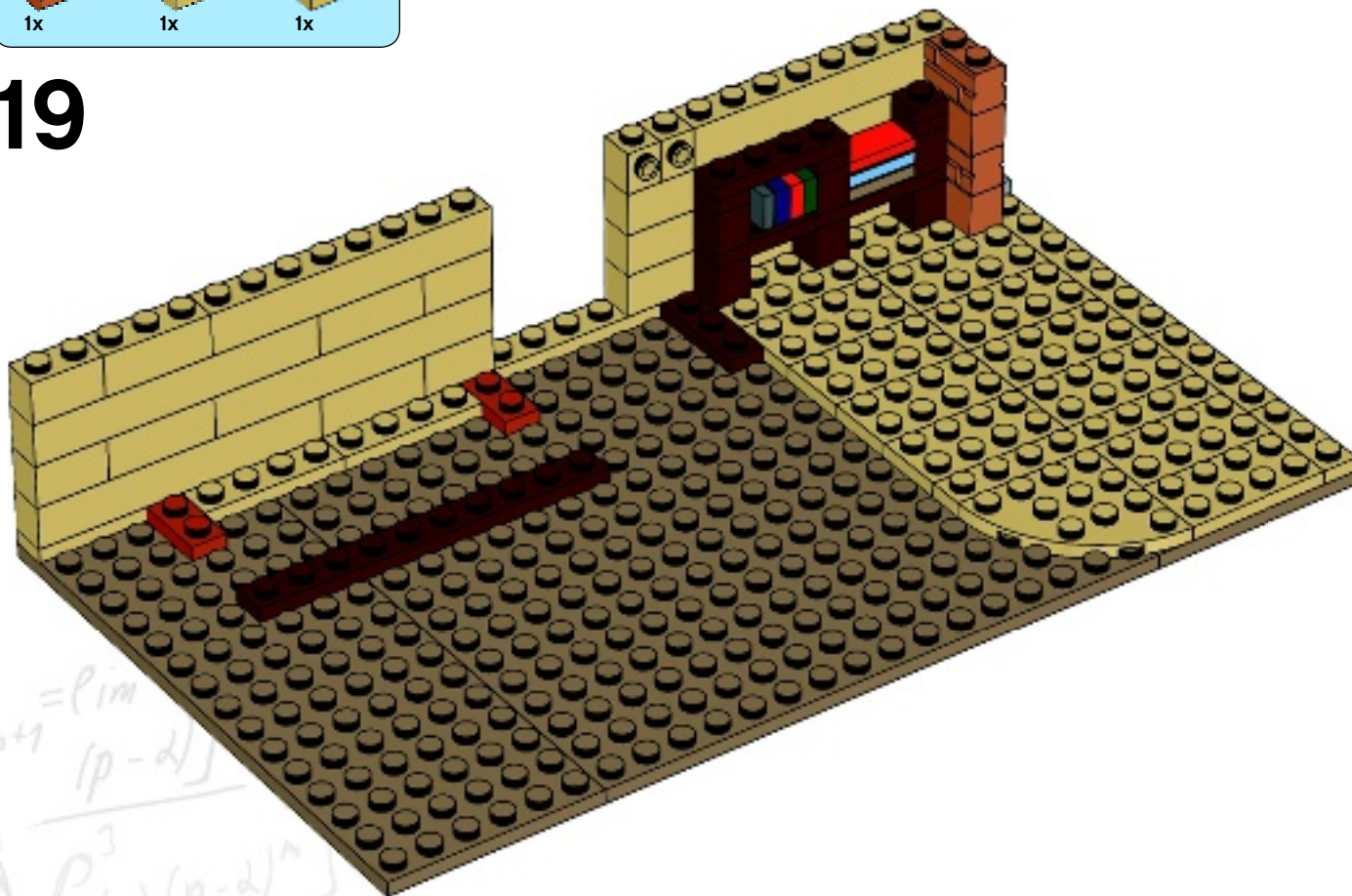
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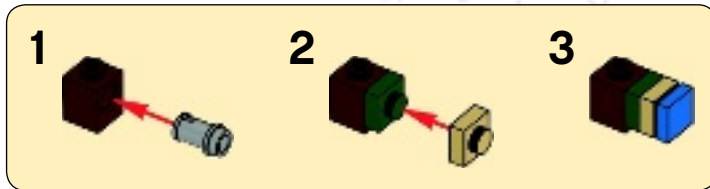
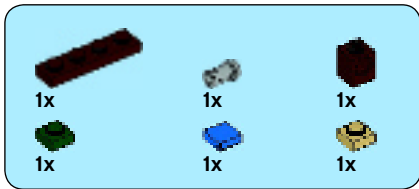


$(n-2)!$ γ $(-m + (-m+1)(p-q))$
 $L = l$
 $p =$
 $+$
 $FIG. 3$ $[f/p]$
 p
 p
 p
 $2p^{1+}$
 z
 (4)
 $\omega(d)$
 $N=$ CH_2 H_2C CH_2
 CH_2

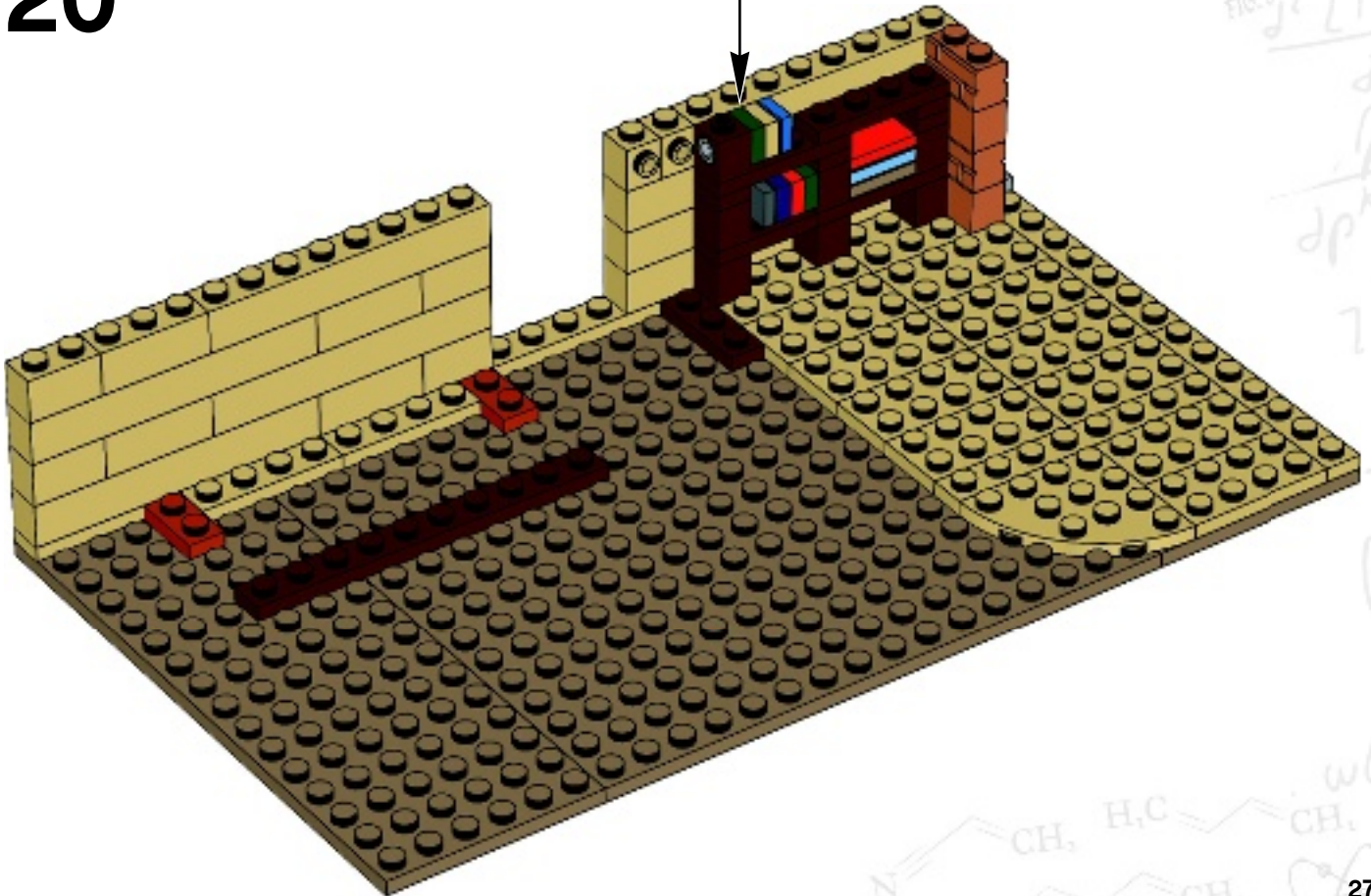


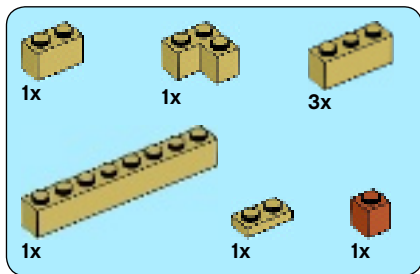
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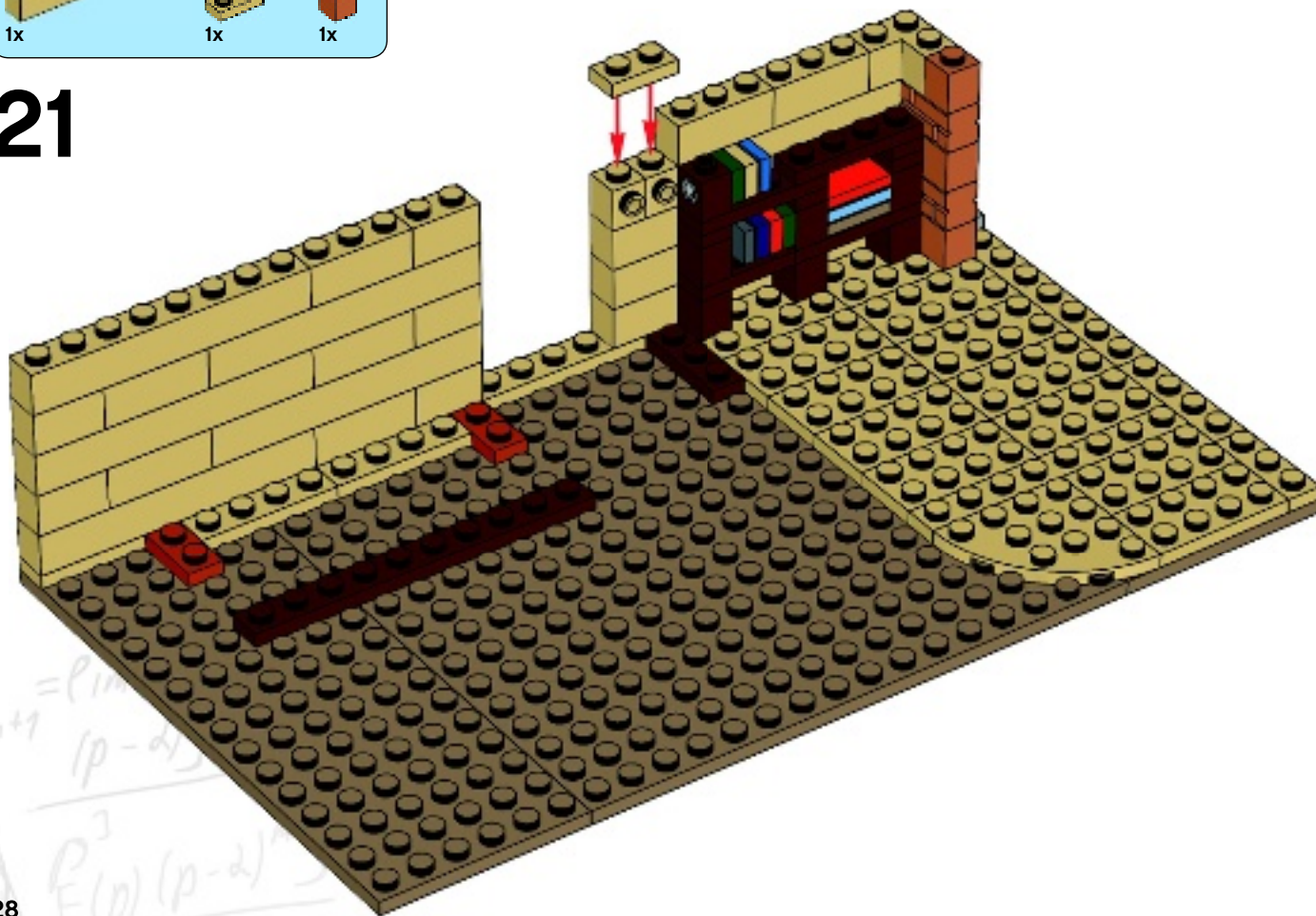





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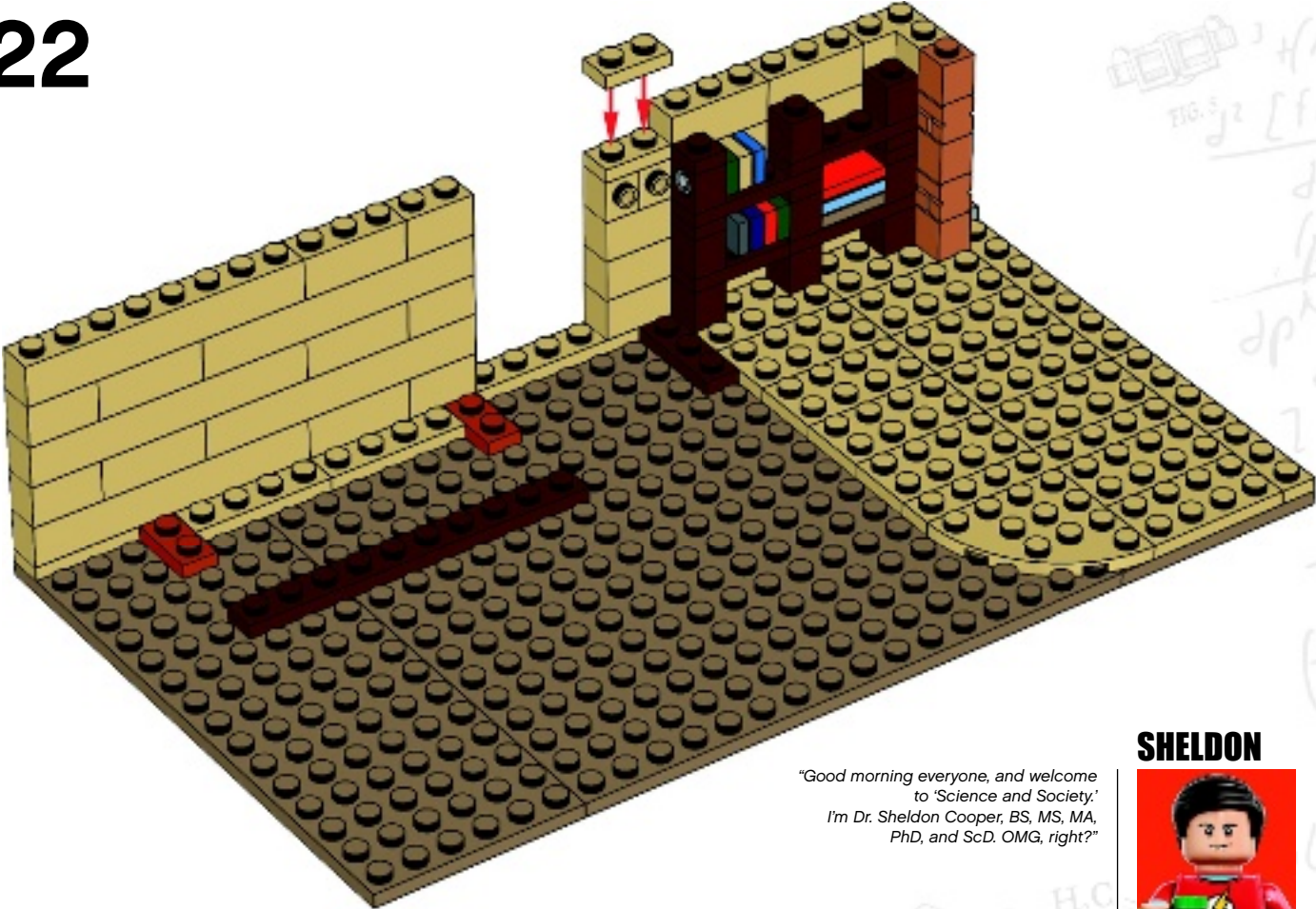


21



		
1x	2x	1x

22



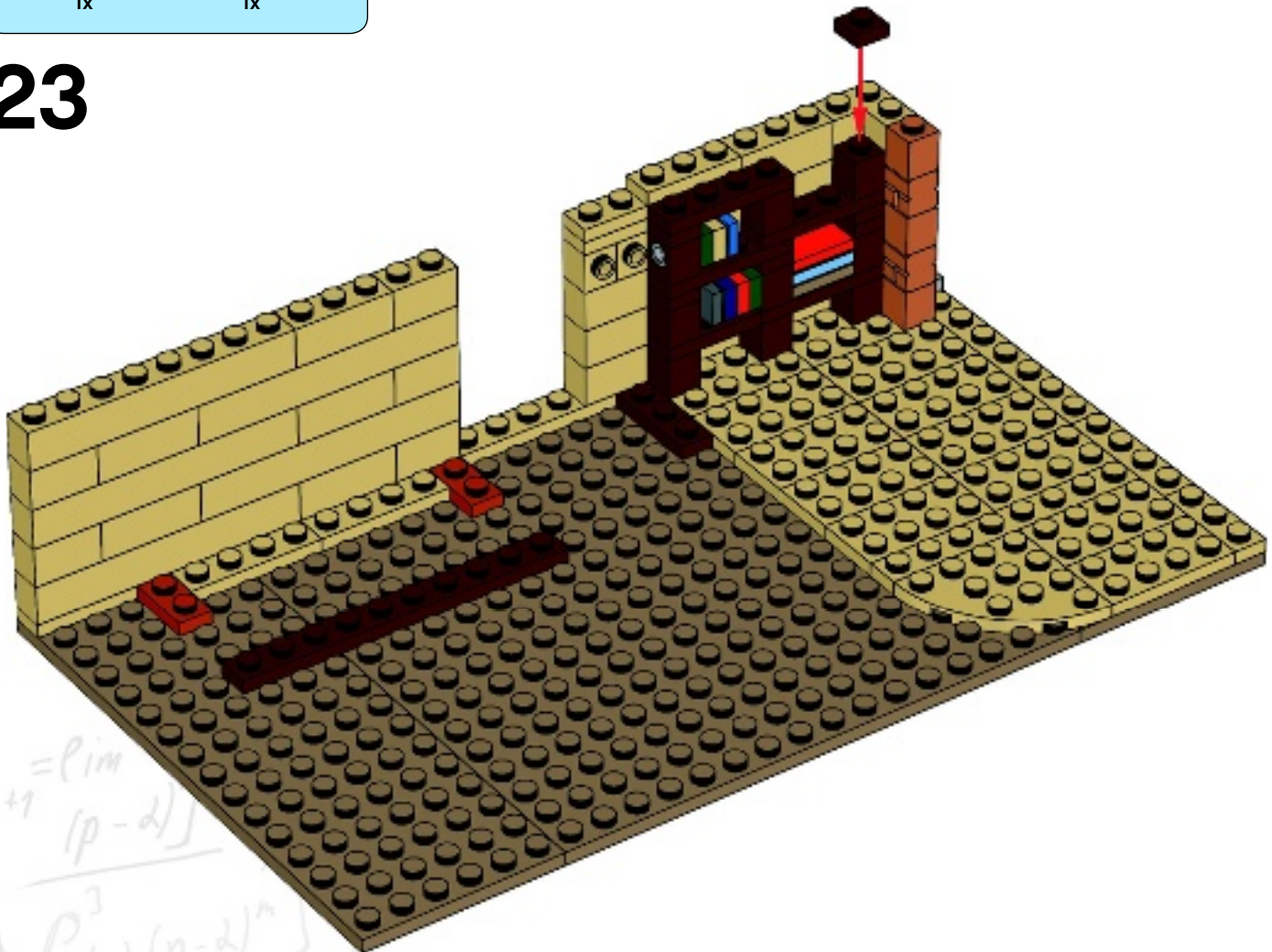
SHELDON

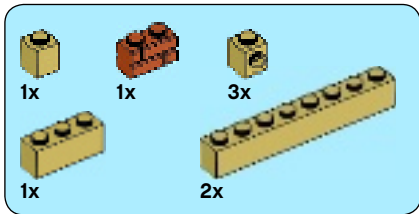
"Good morning everyone, and welcome to 'Science and Society.' I'm Dr. Sheldon Cooper, BS, MS, MA, PhD, and ScD. OMG, right?"



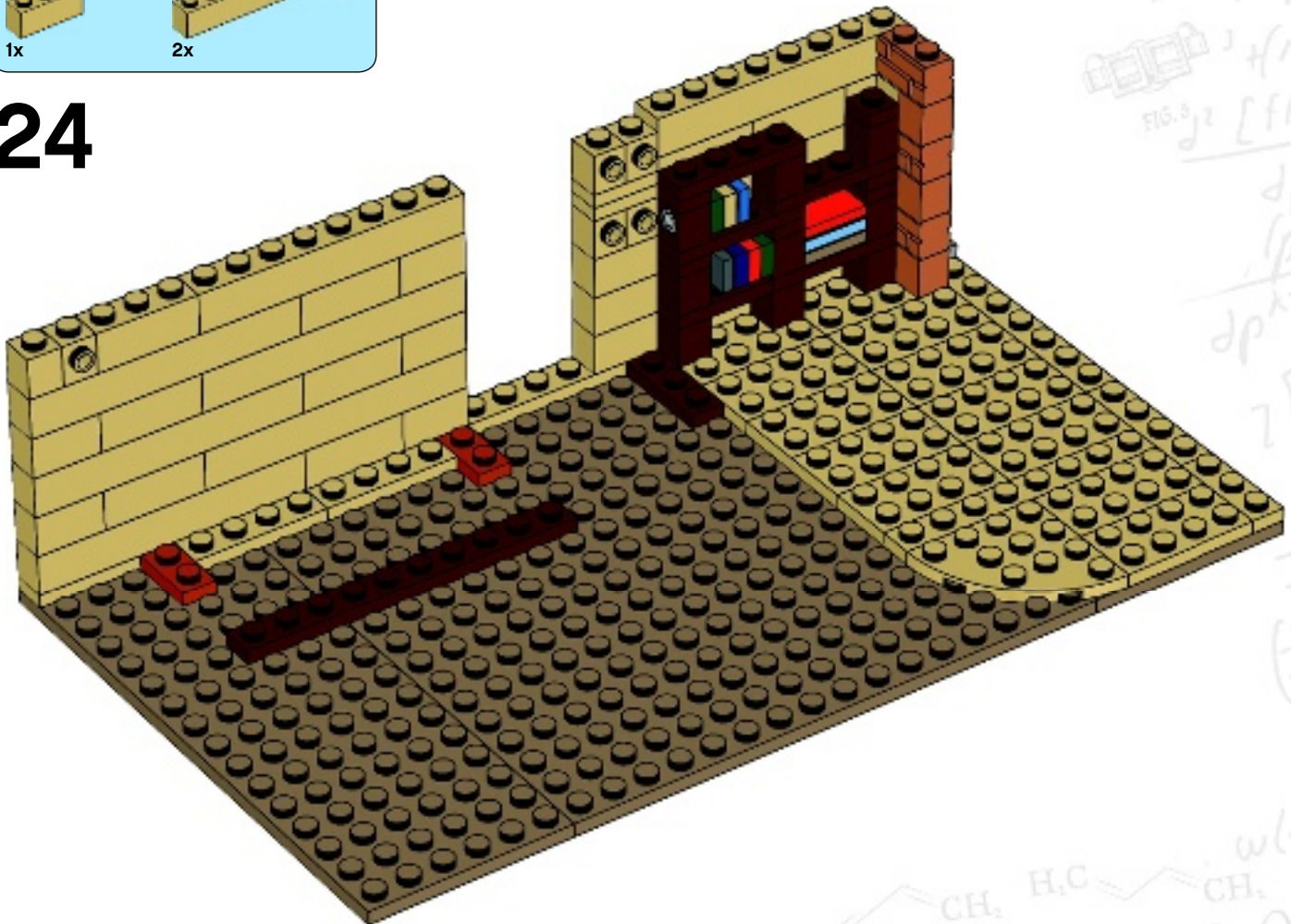


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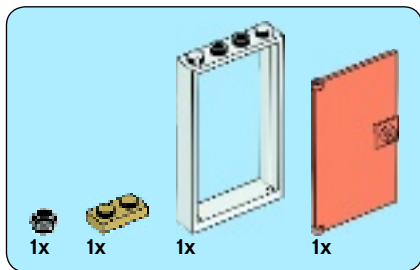




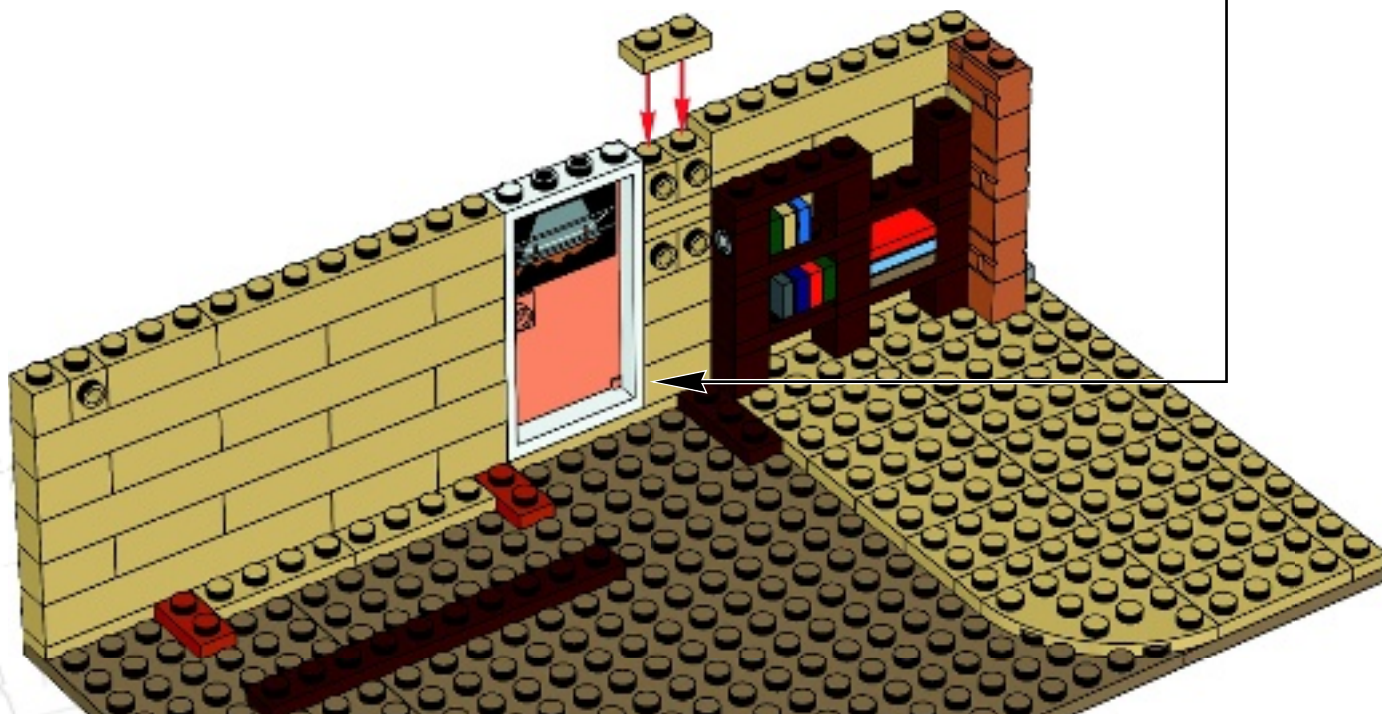
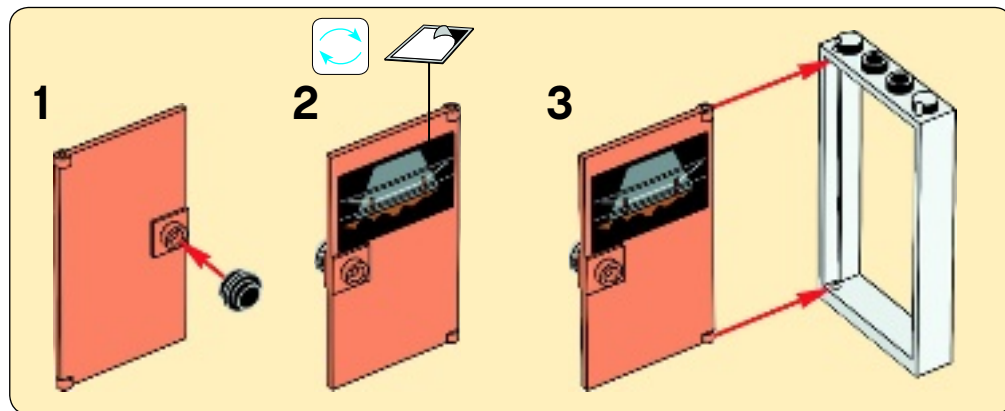
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$(n-2)!$
 $(-m + (-m+1)(p-q) + \dots)$
 $L = m p^2$
FIG. 5
 $[f/p]$
 p/p
 p/p
 p/p
 $2[$
 (4)
 $w(d)$
 $N=CH_2$
 $H_2C=CH_2$
 CH_2
 CH_2

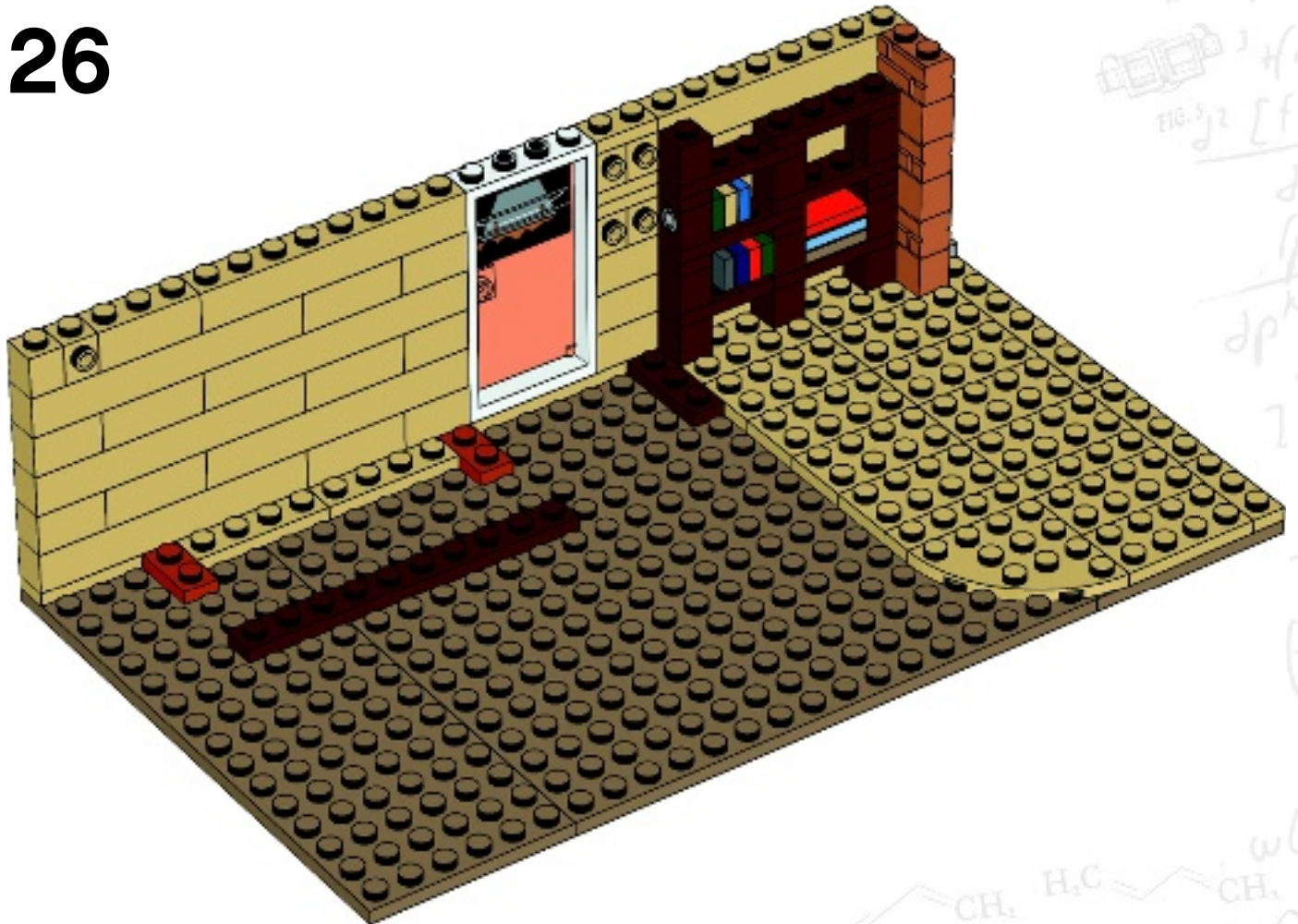


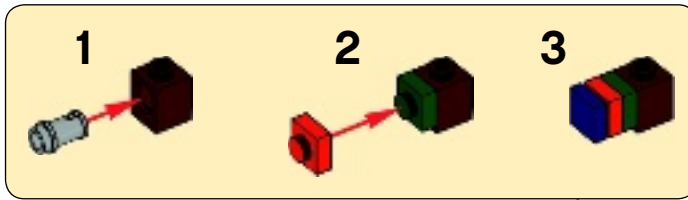
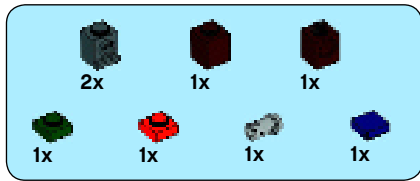
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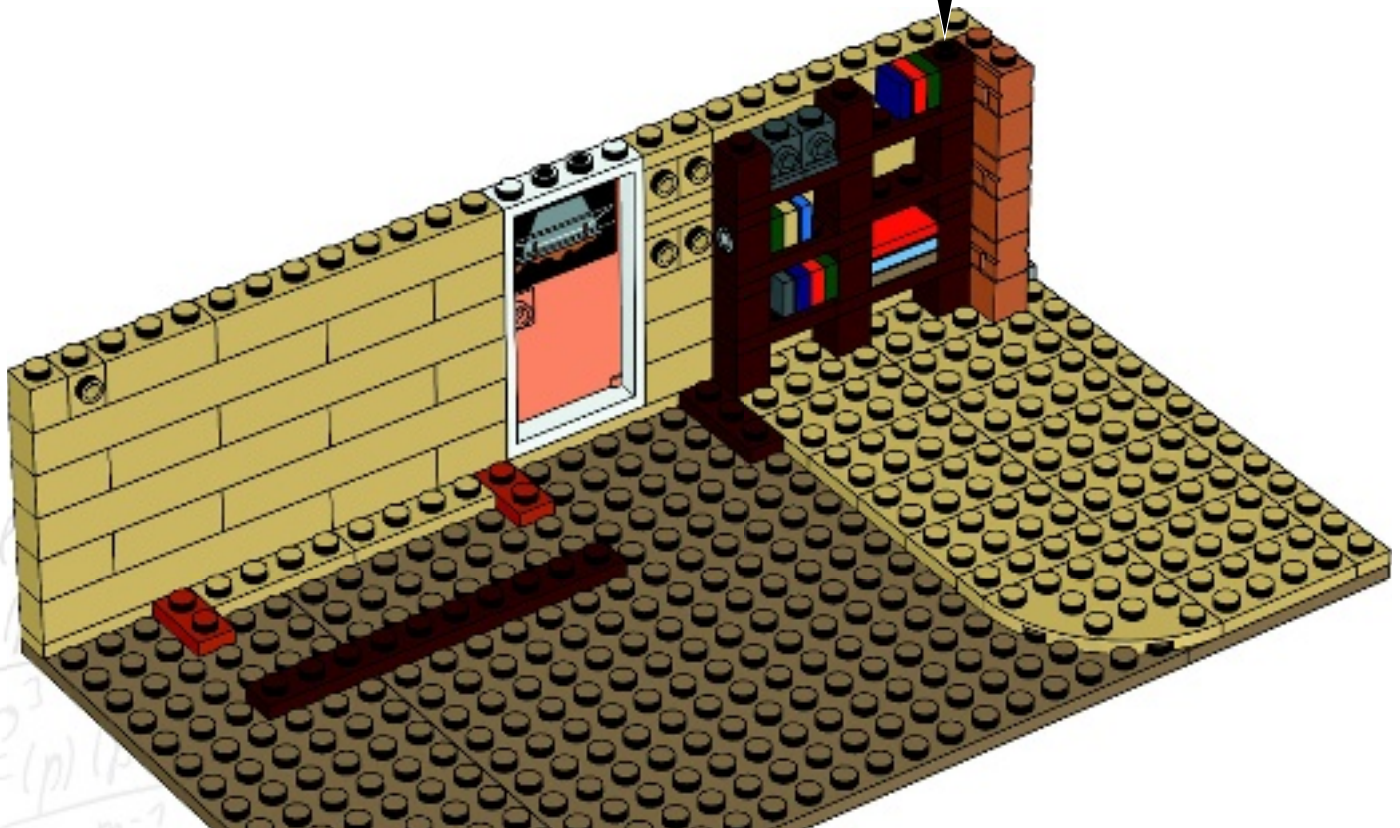


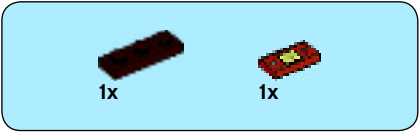
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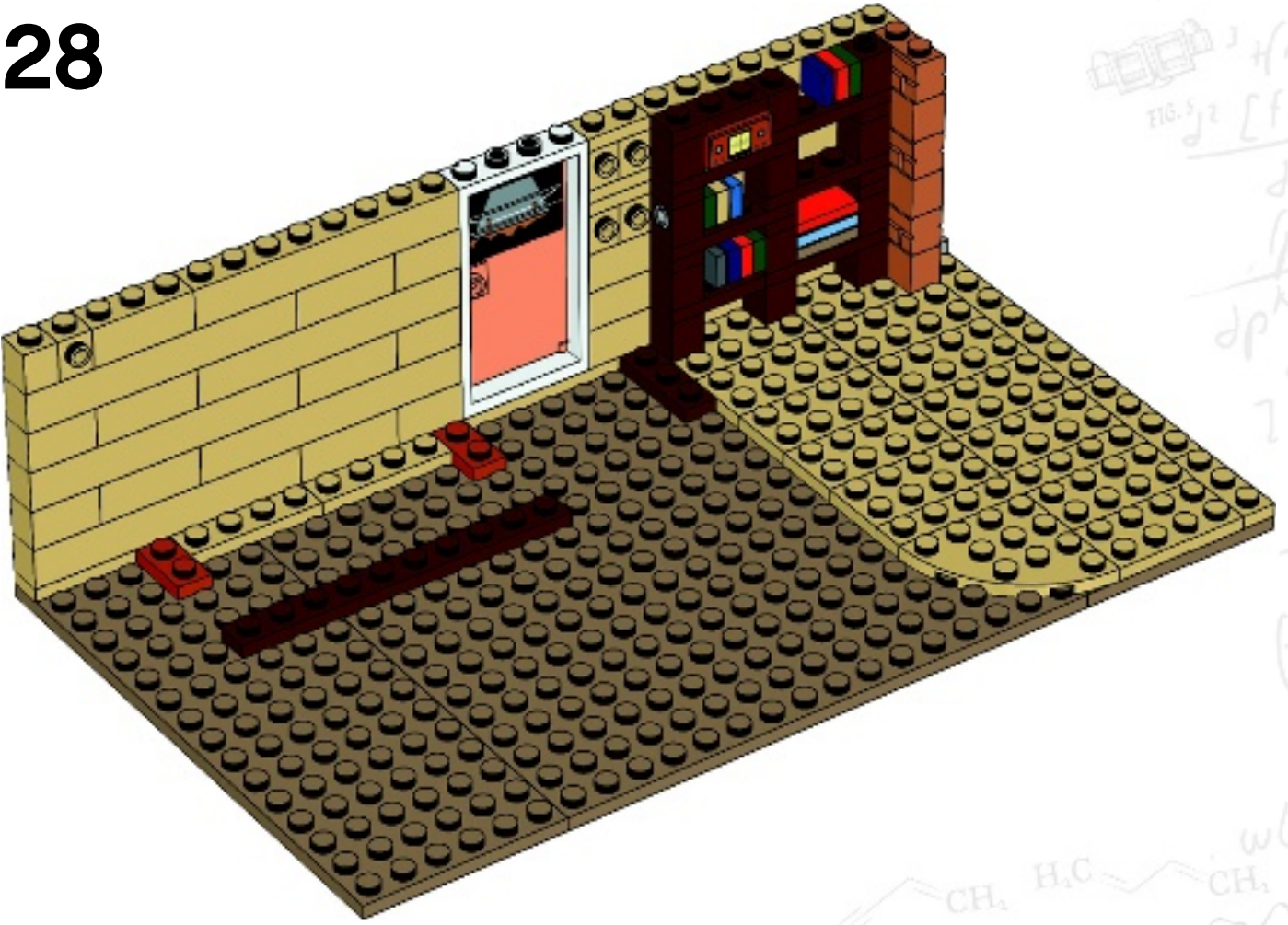


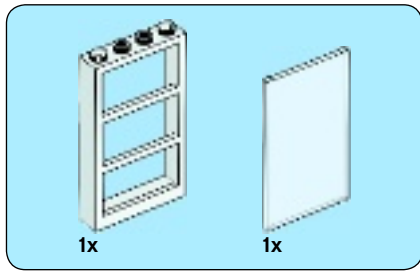
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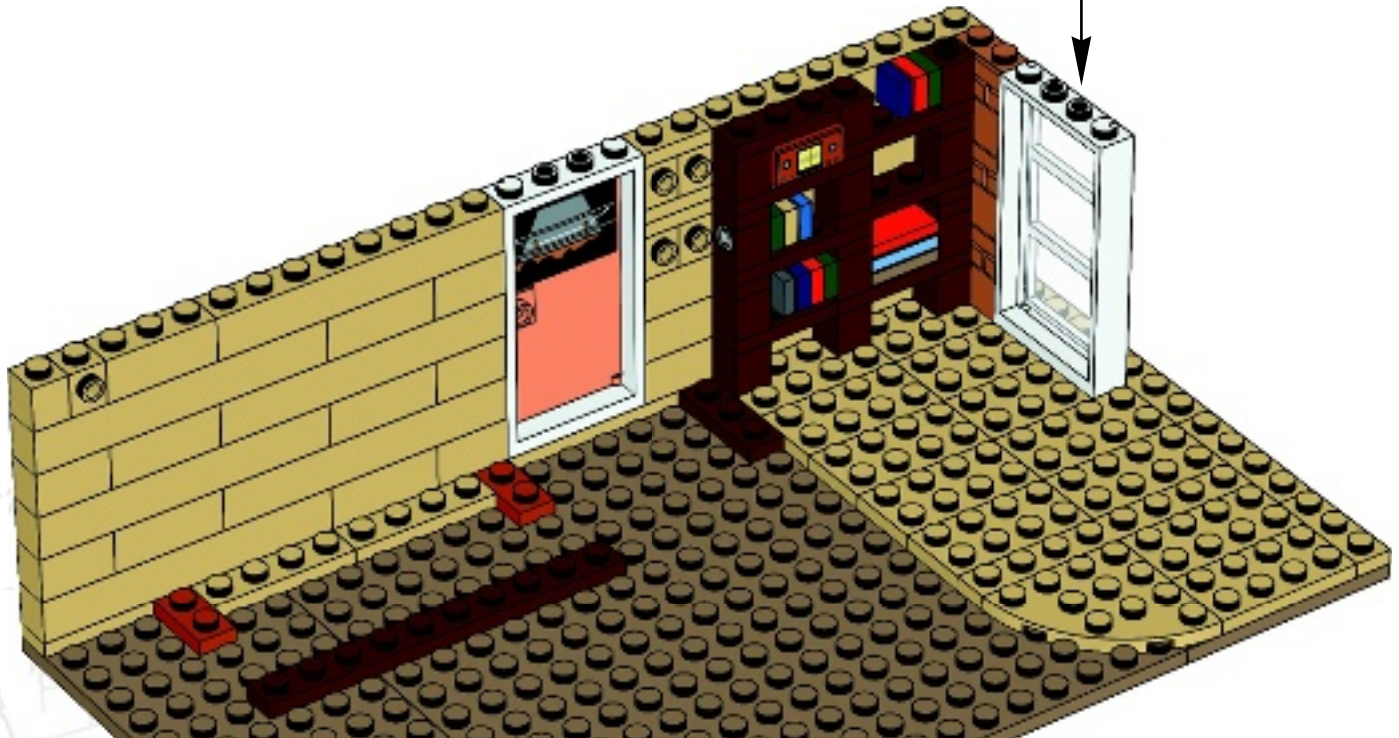
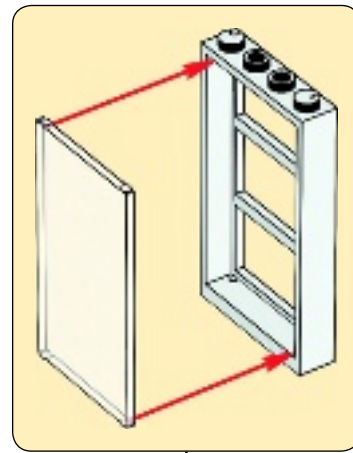


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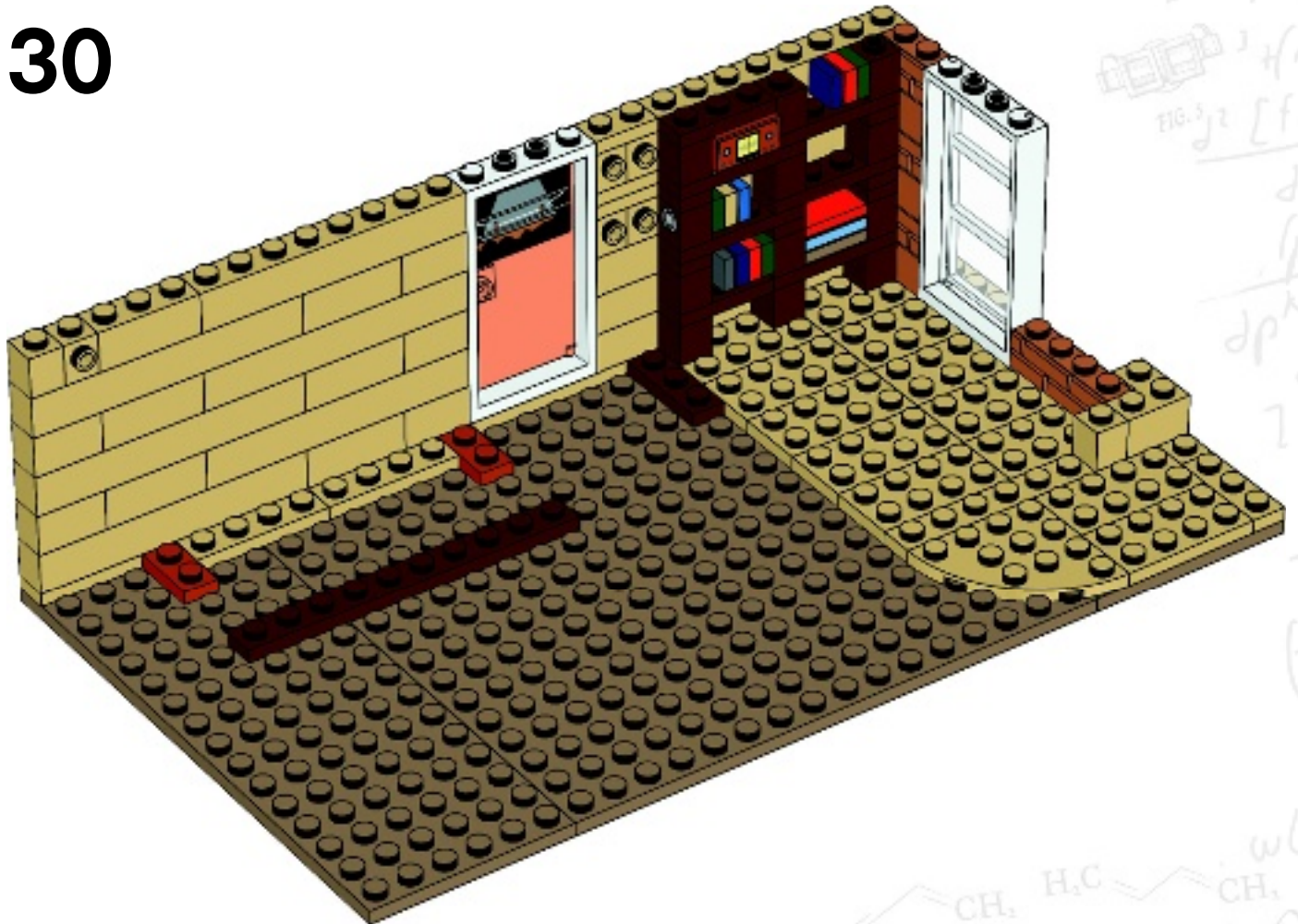


29





30





1x

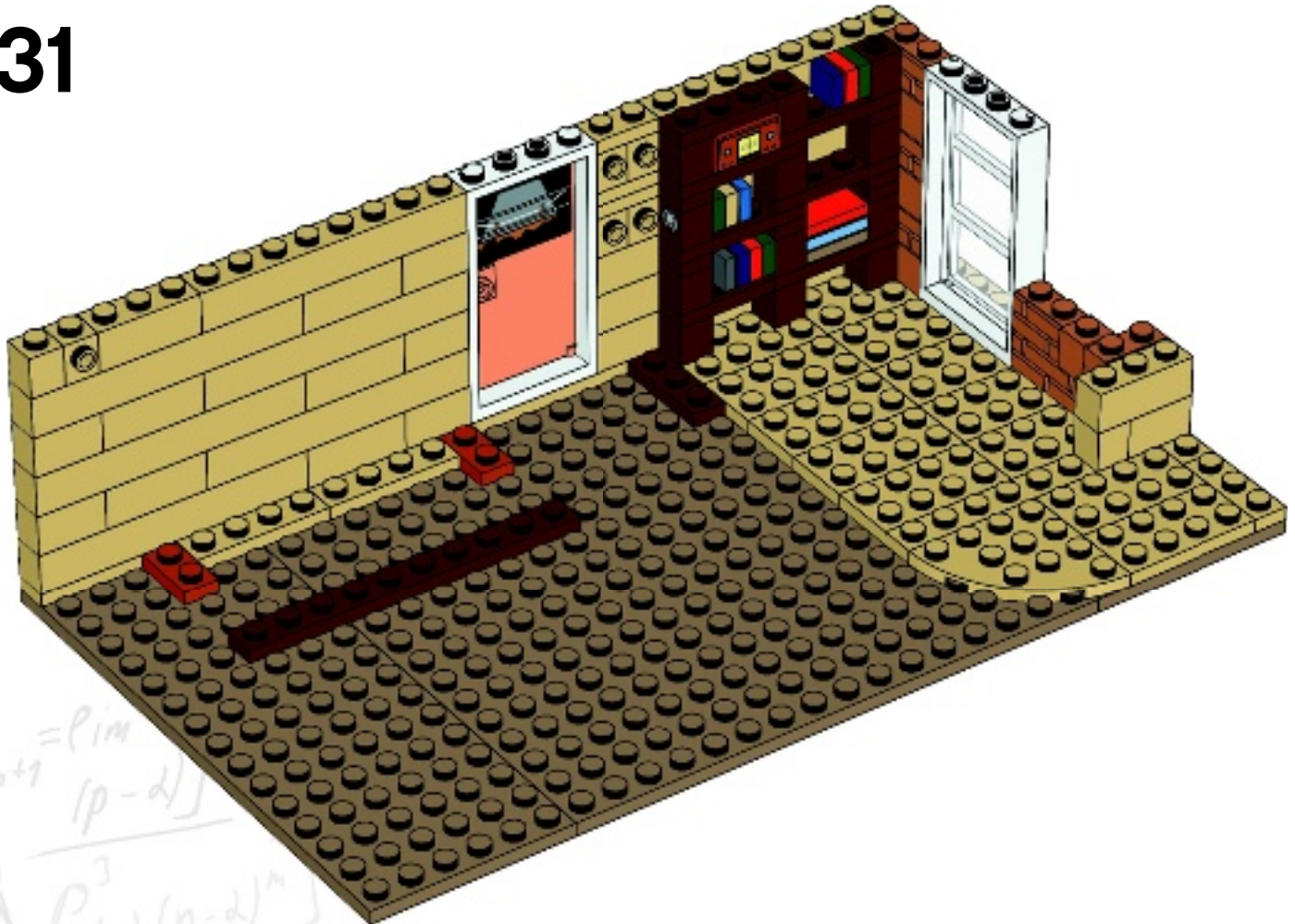


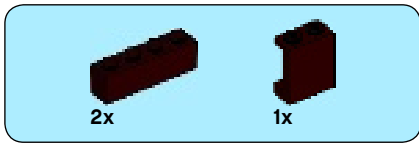
2x



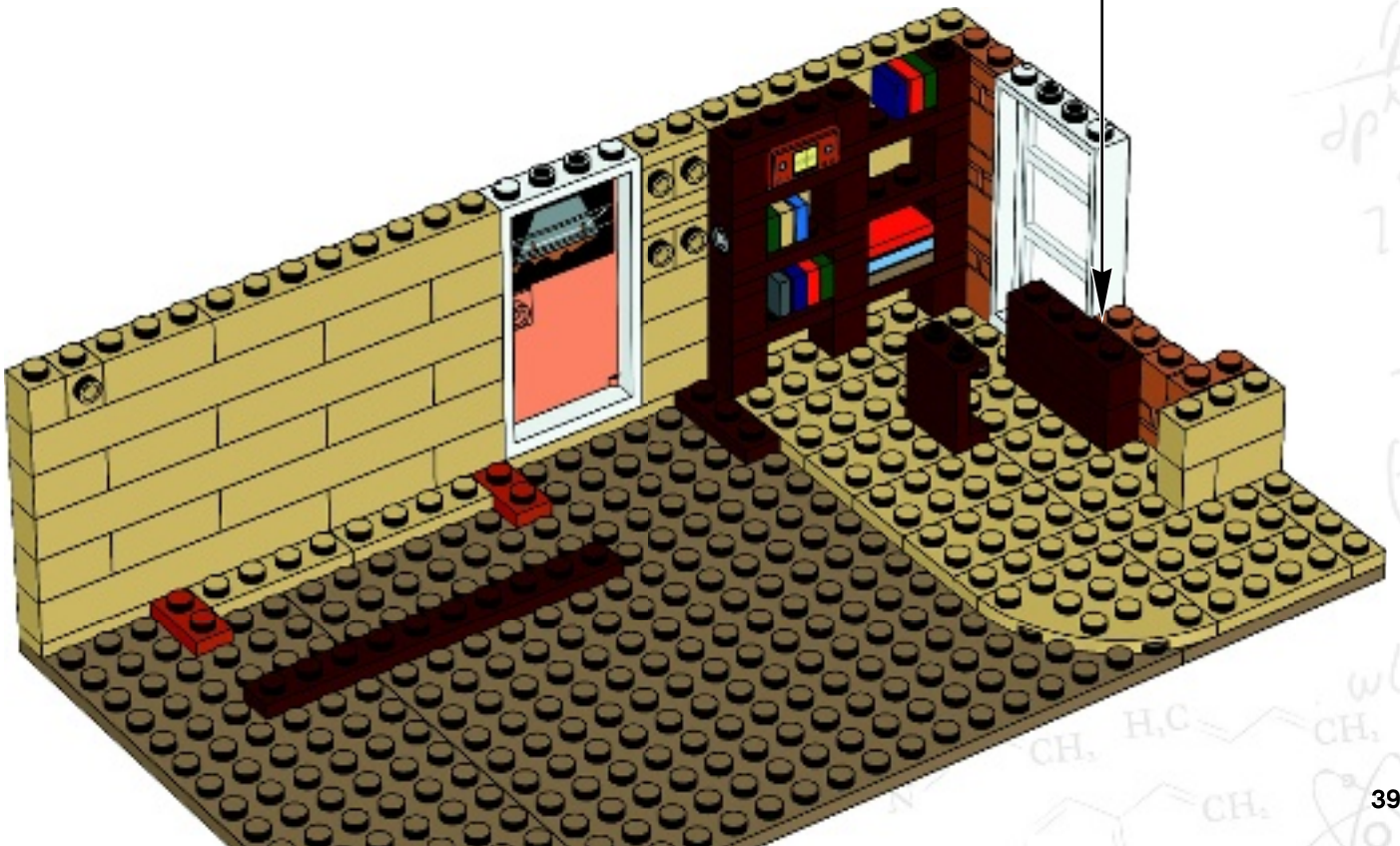
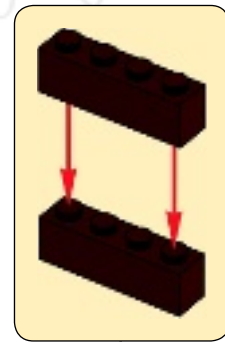
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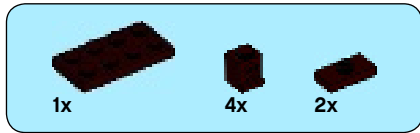
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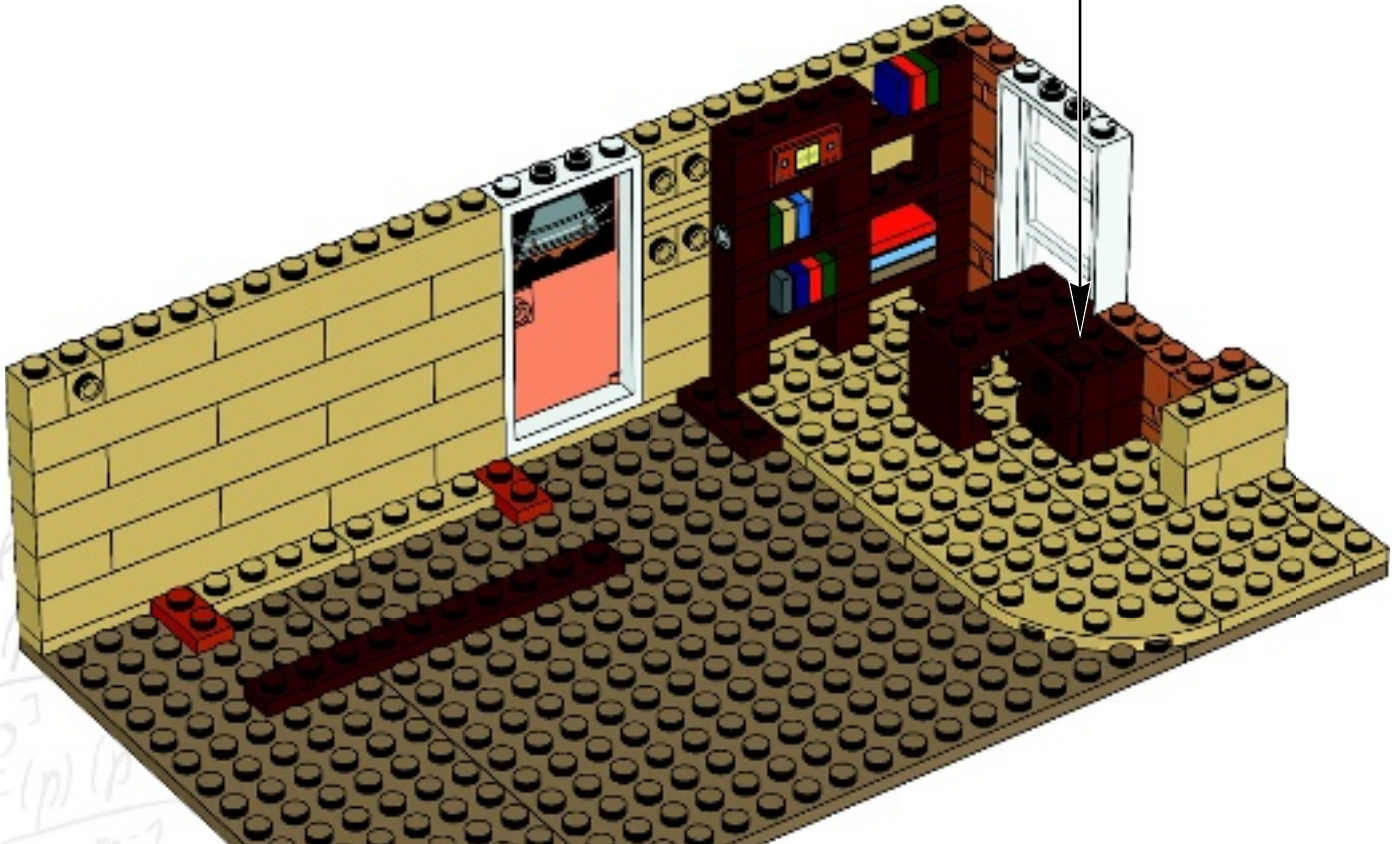
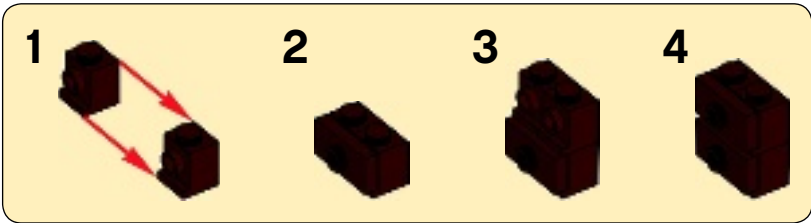


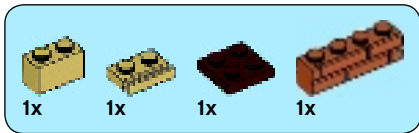
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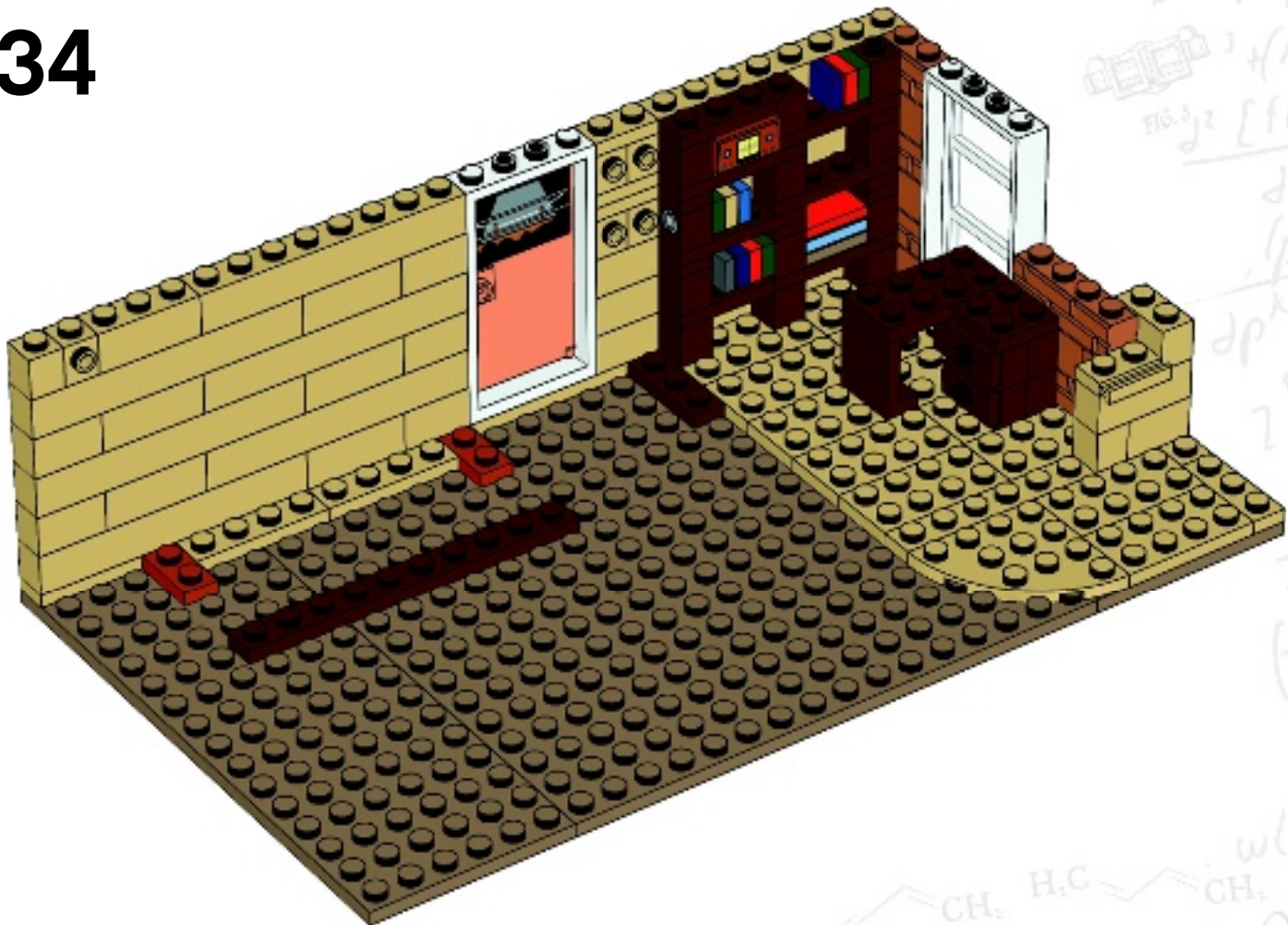


33



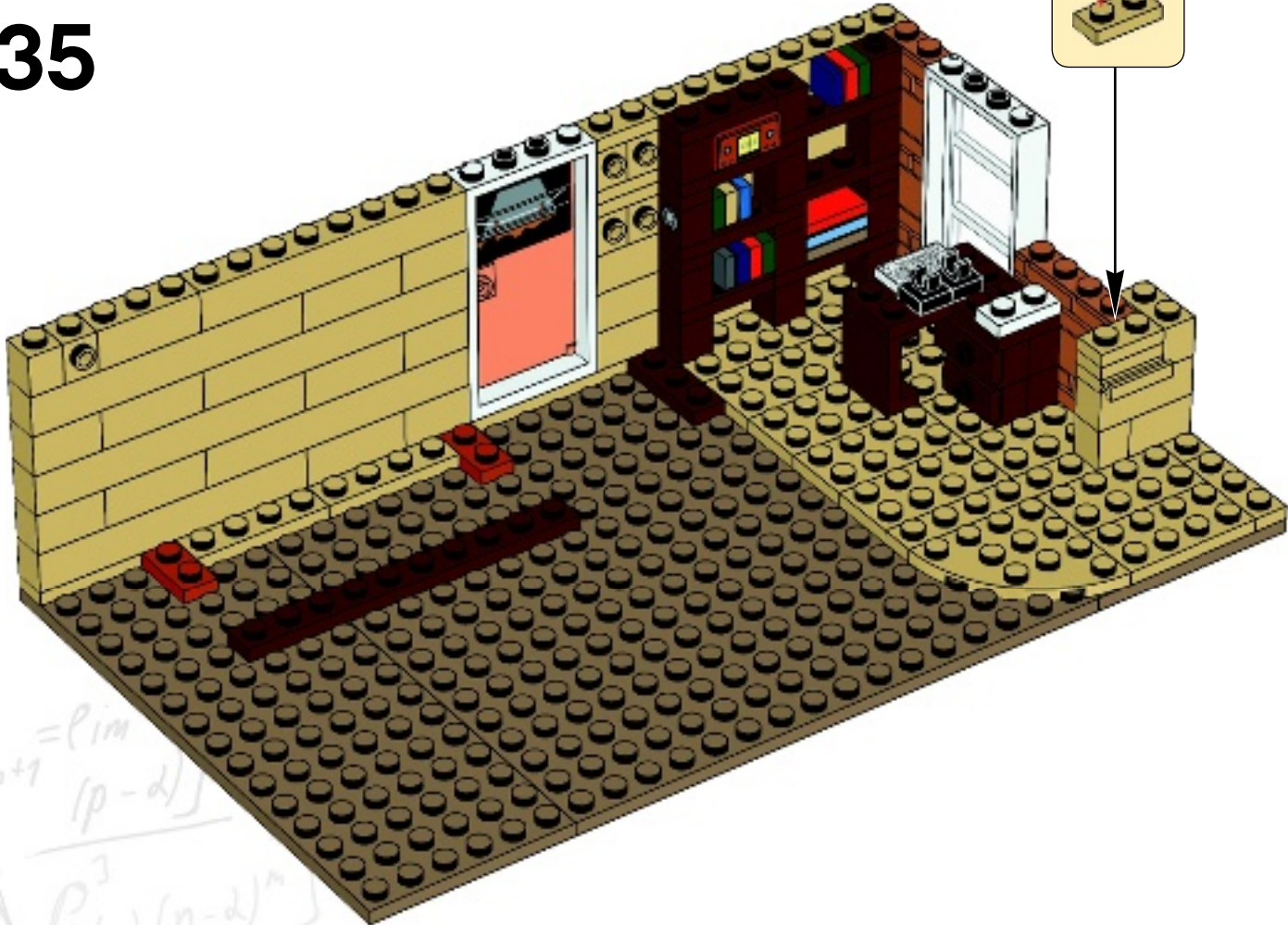
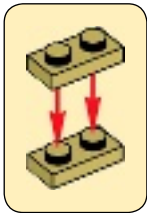


34



1x	2x	1x	2x

35



2

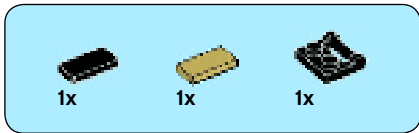
$= p \cdot m$

$-m+1$

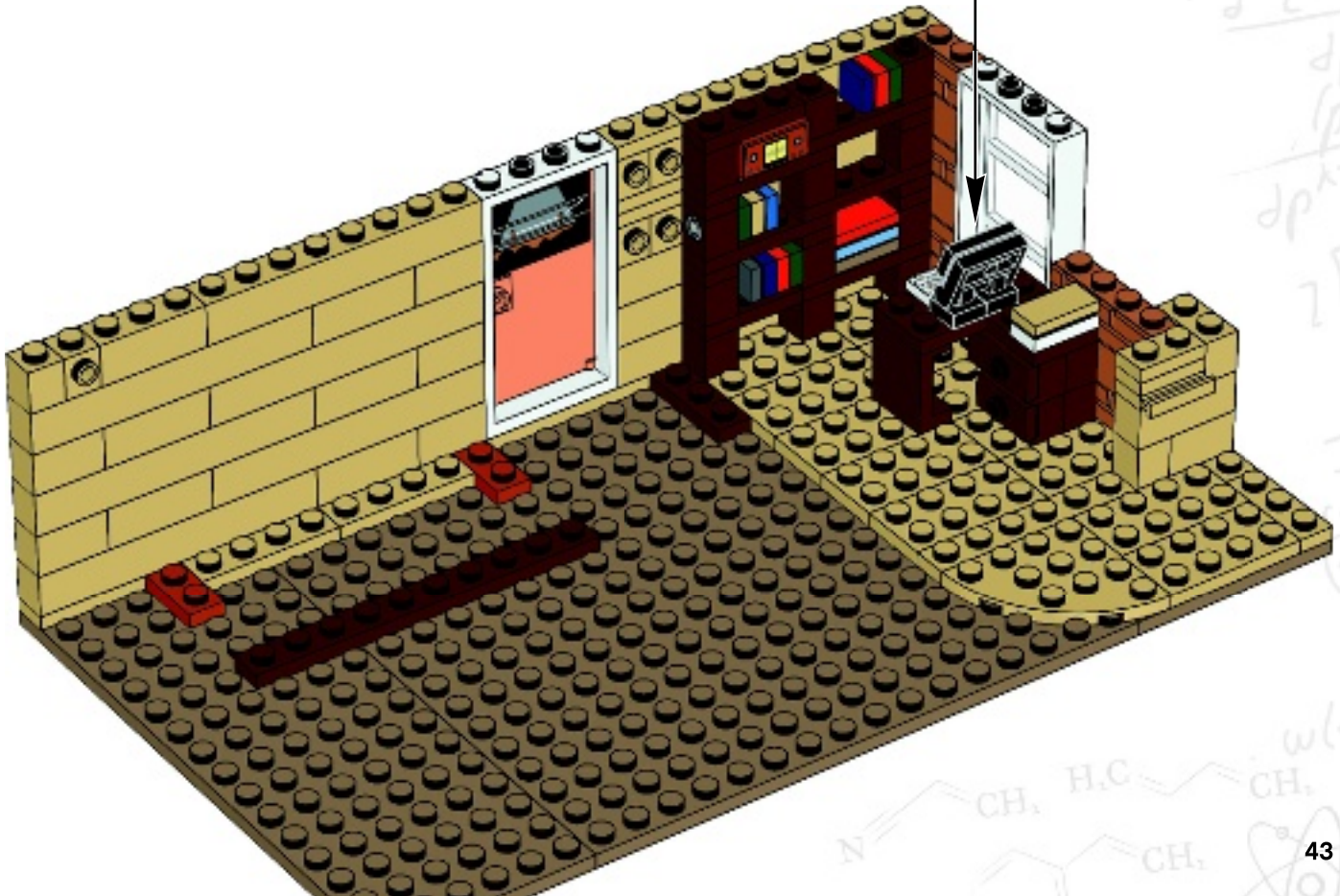
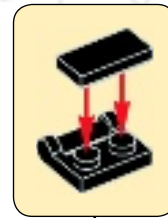
$(p-d)$

p^3

$F(p)(p-d)^m$



36



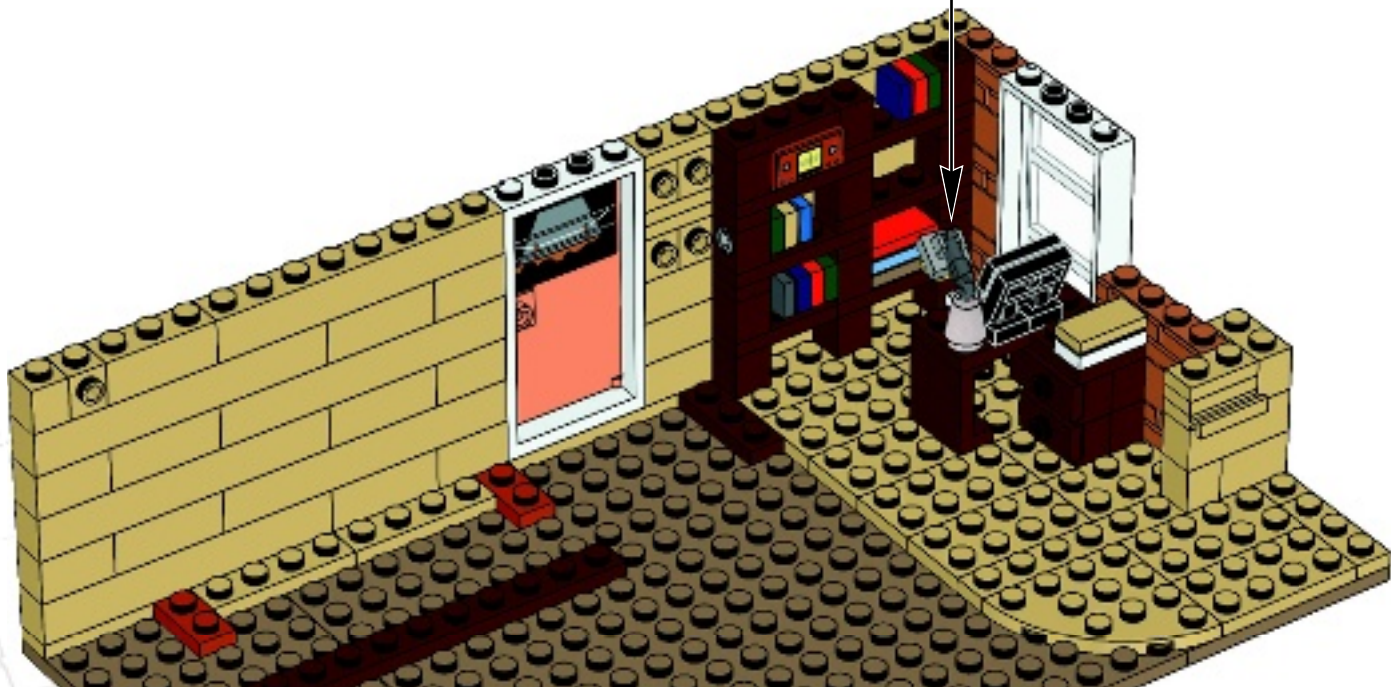
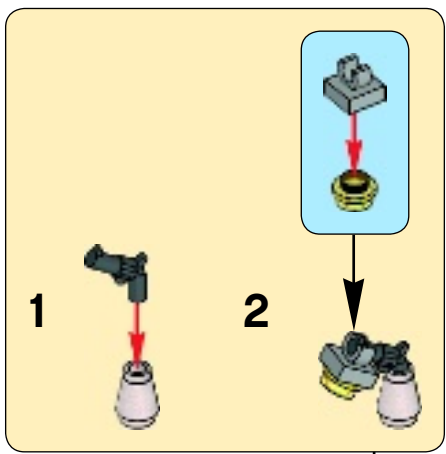
1x

1x

1x

1x

37





2x



1x

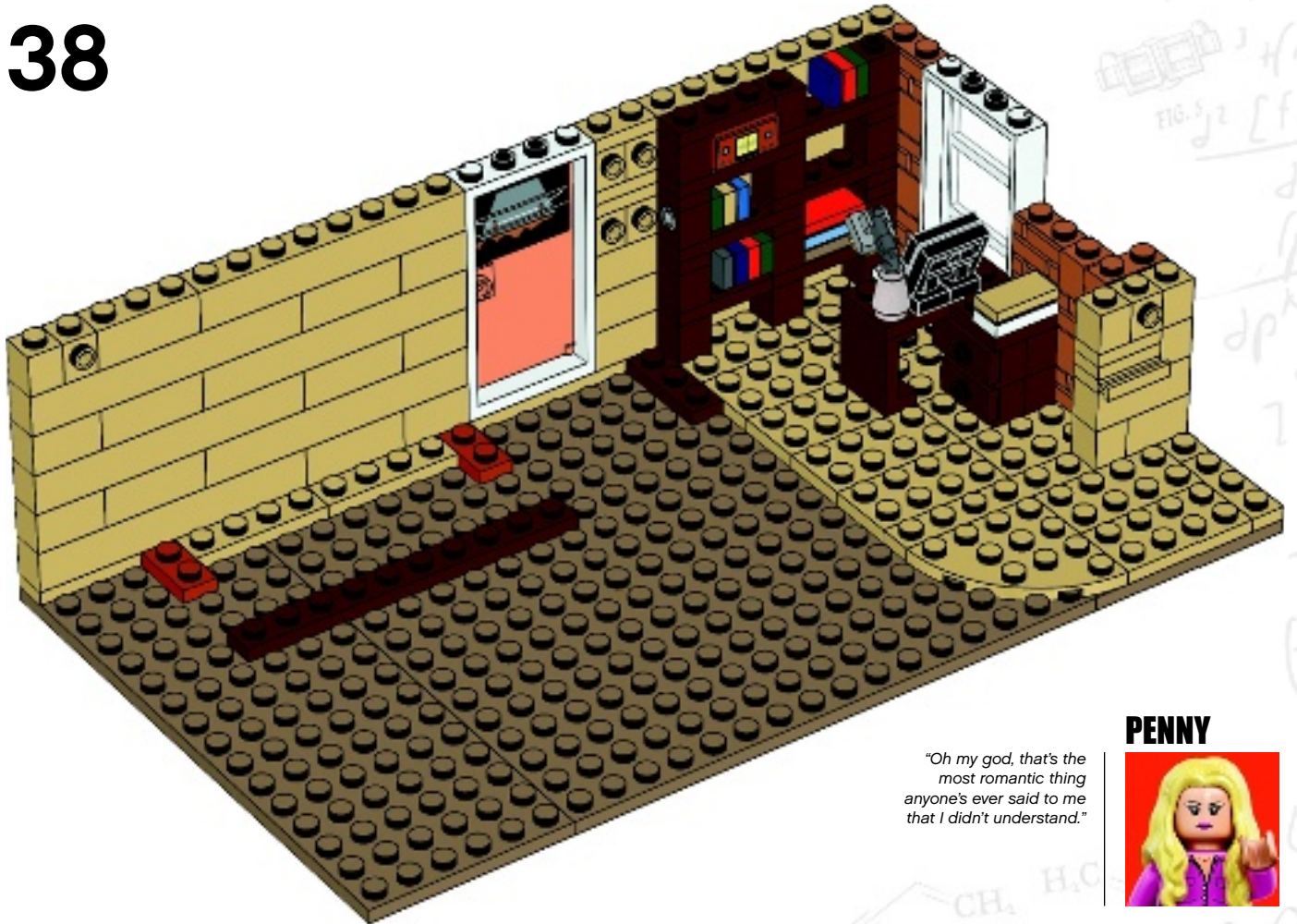


2x



1x

38



PENNY

"Oh my god, that's the most romantic thing anyone's ever said to me that I didn't understand."



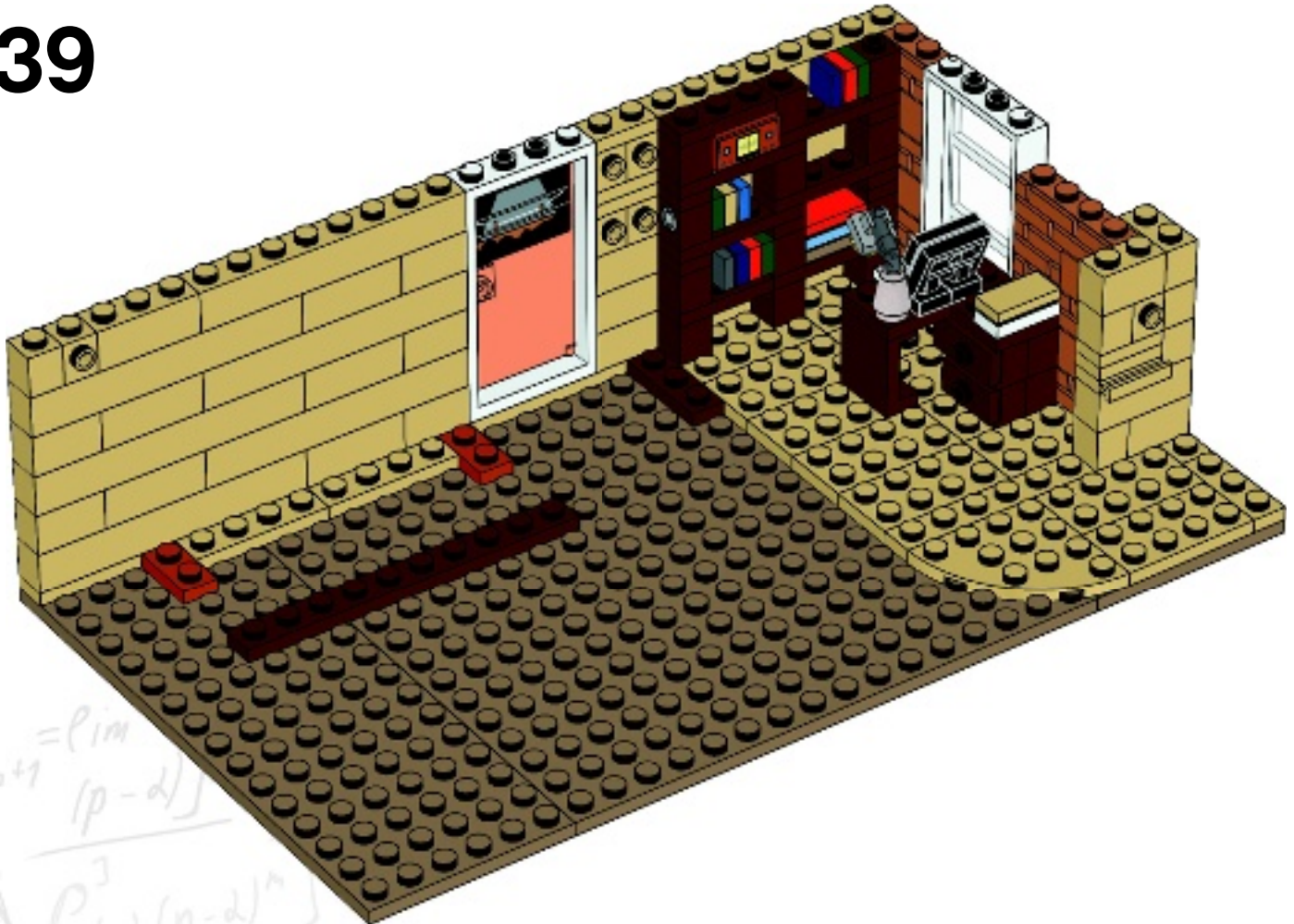


2x



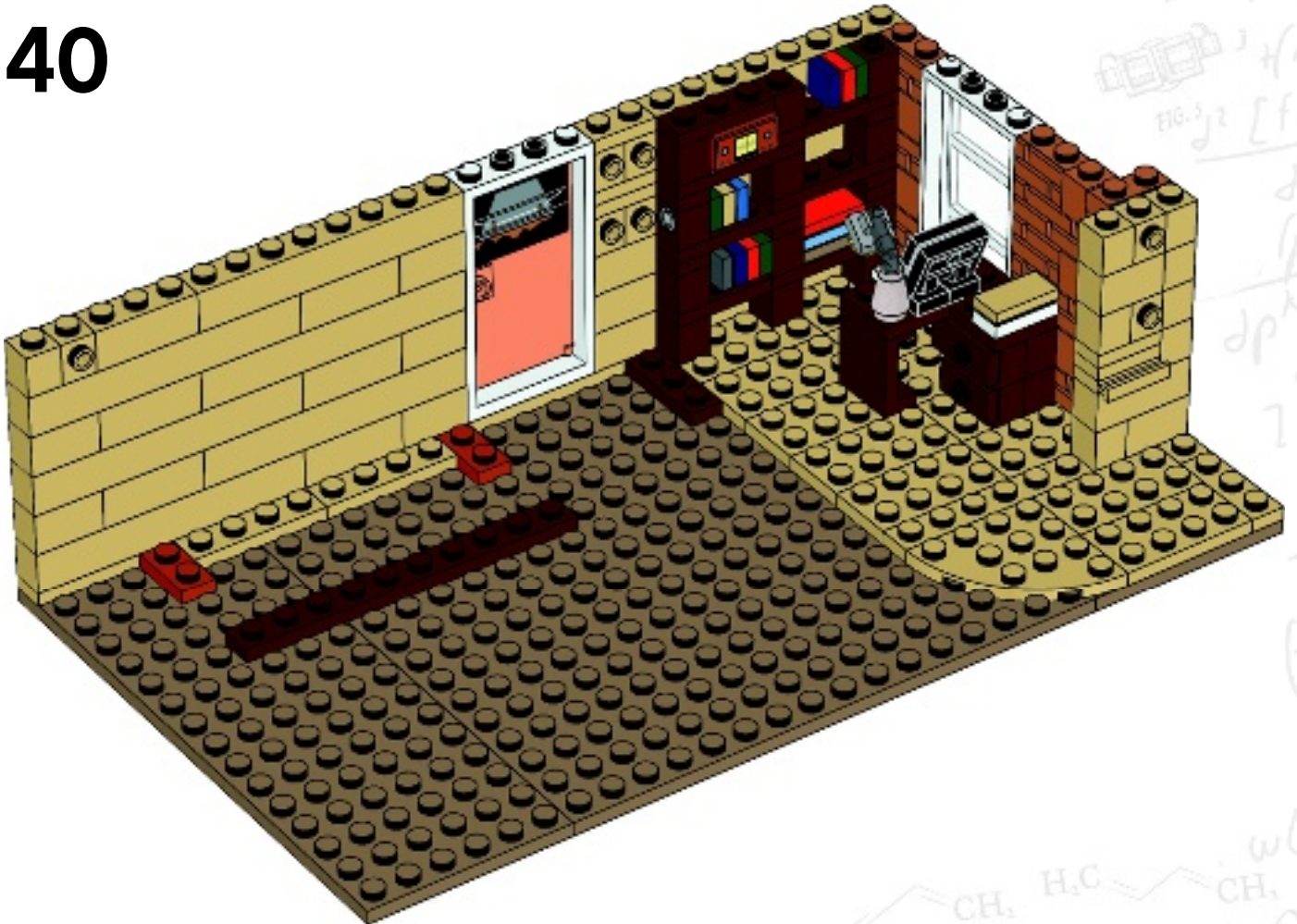
1x

39





40



$(n-2)!$

$(-m + (-m+1)(p-q))$

$L = m p^2$

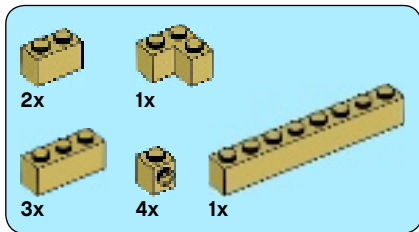
FIG. 3/2 [f/p]

$\frac{dp}{dx}$

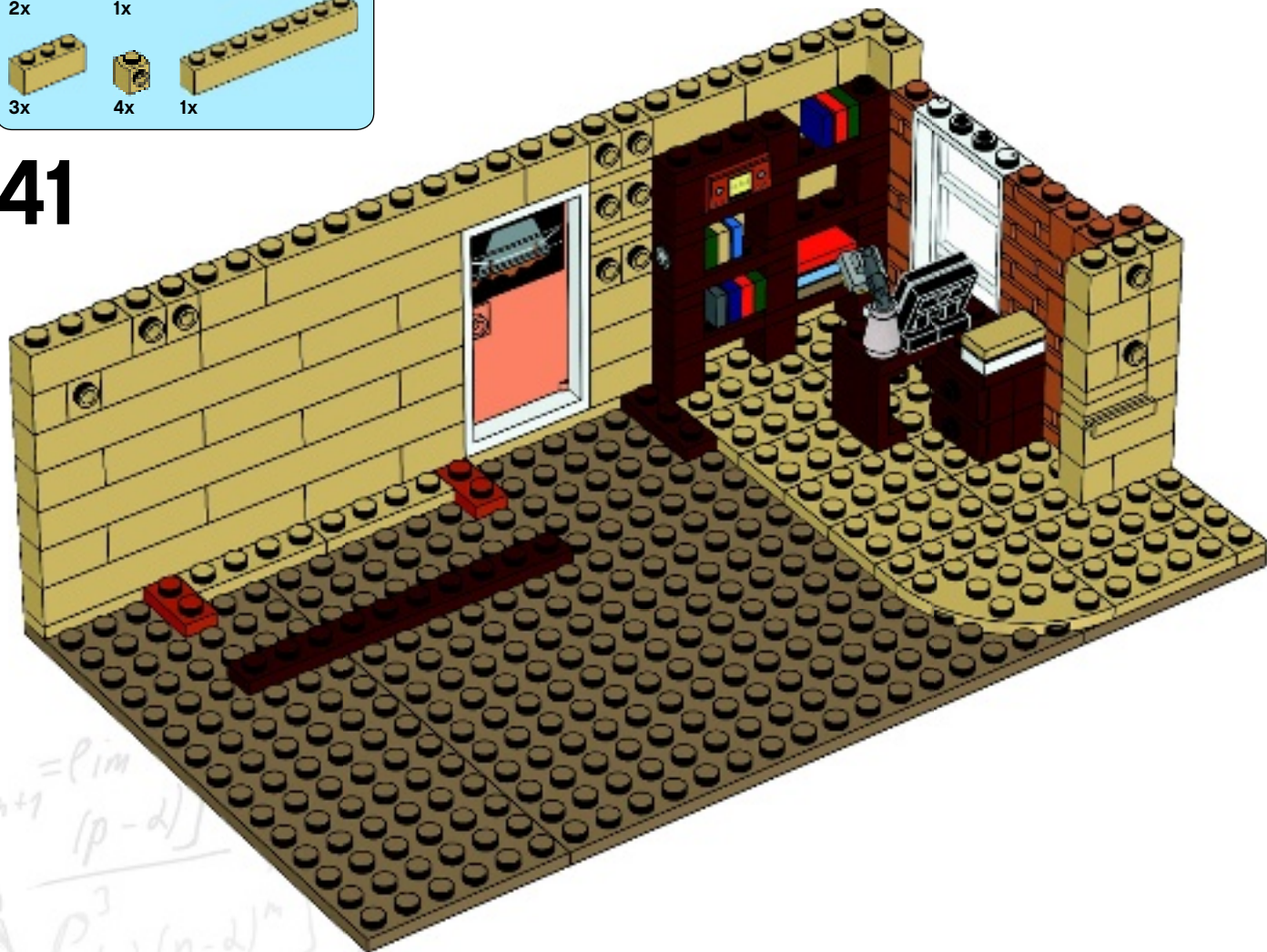
$\frac{1}{4}$

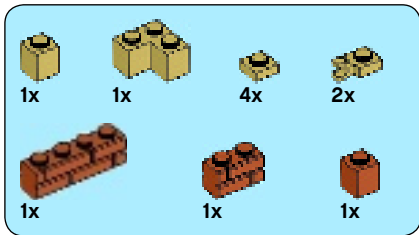
$w(d)$

$N = \text{CH}_2 = \text{CH}_2$, $\text{H}_2\text{C} = \text{CH}_2$, $\text{CH}_2 = \text{CH}_2$

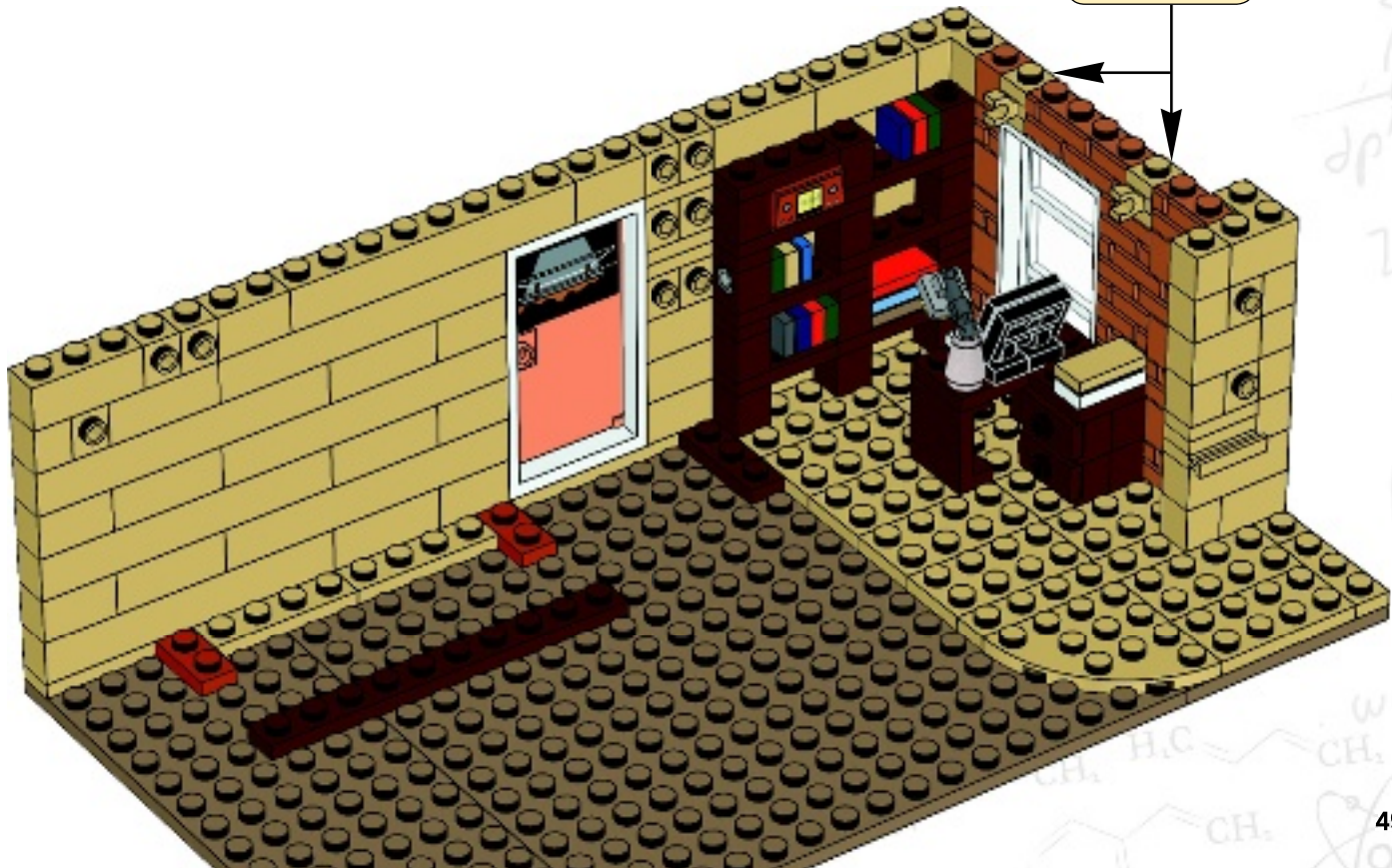
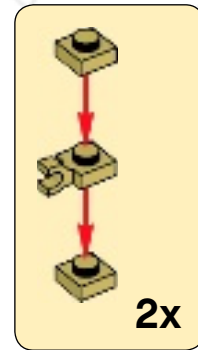


41



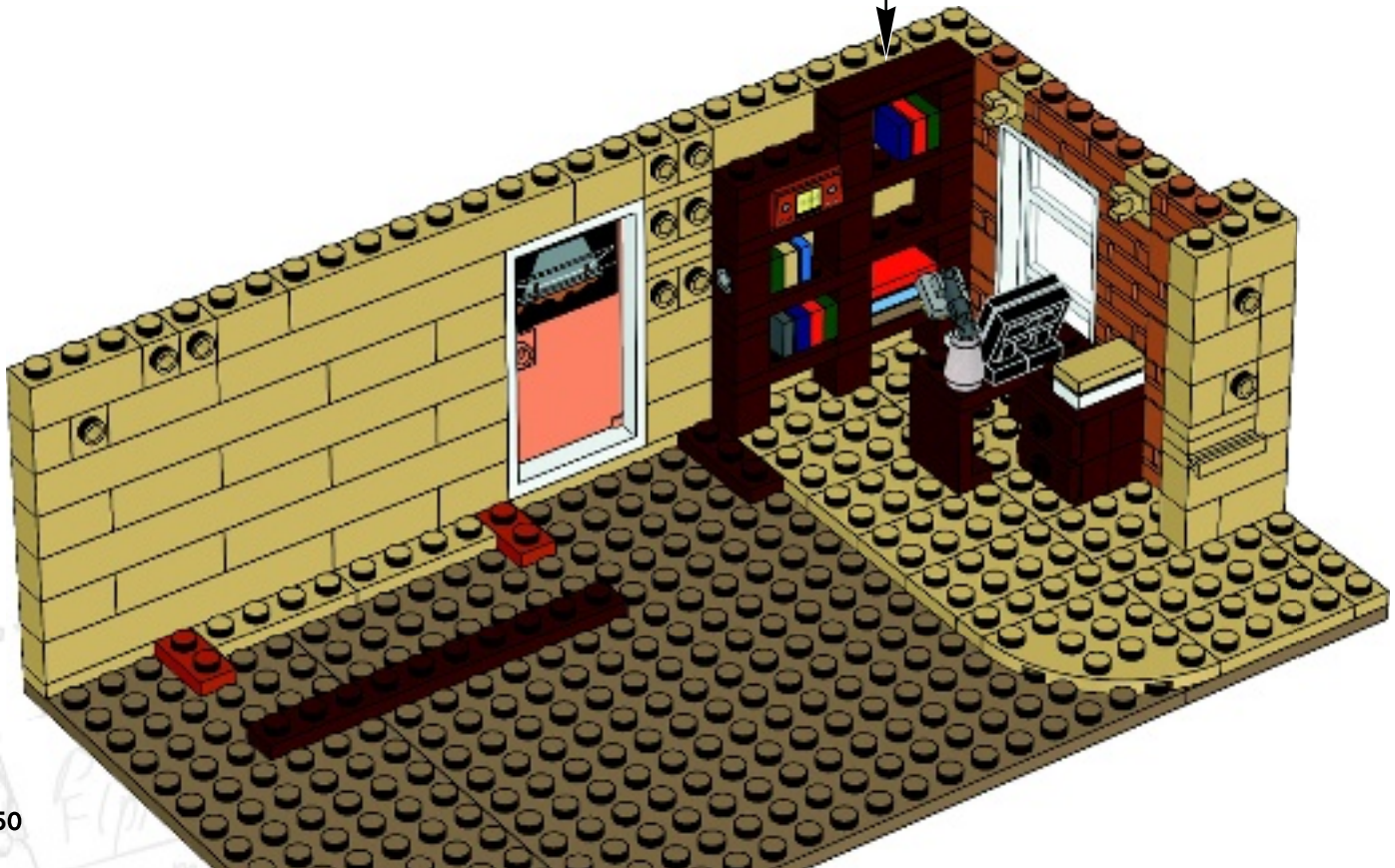
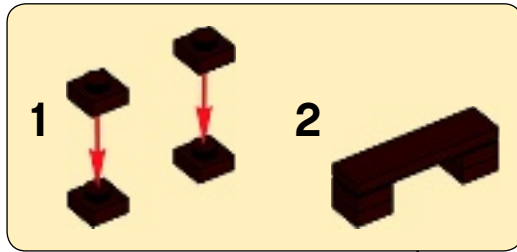


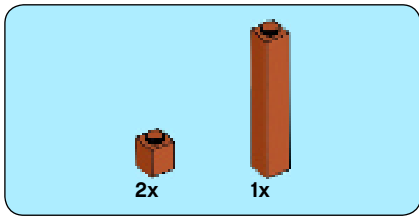
42



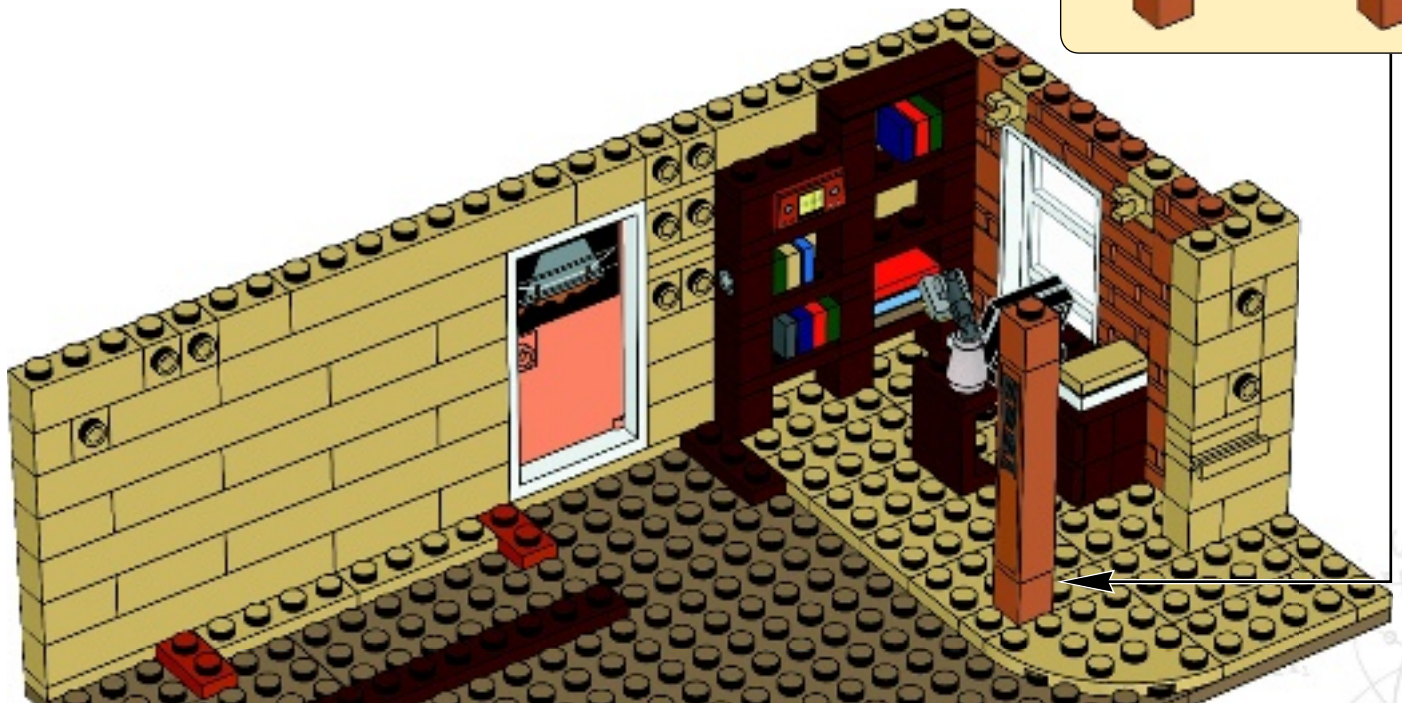
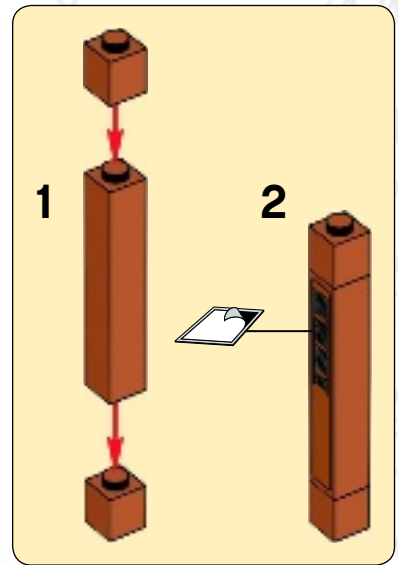


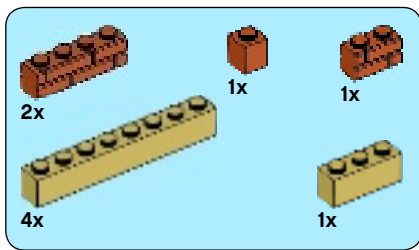
43



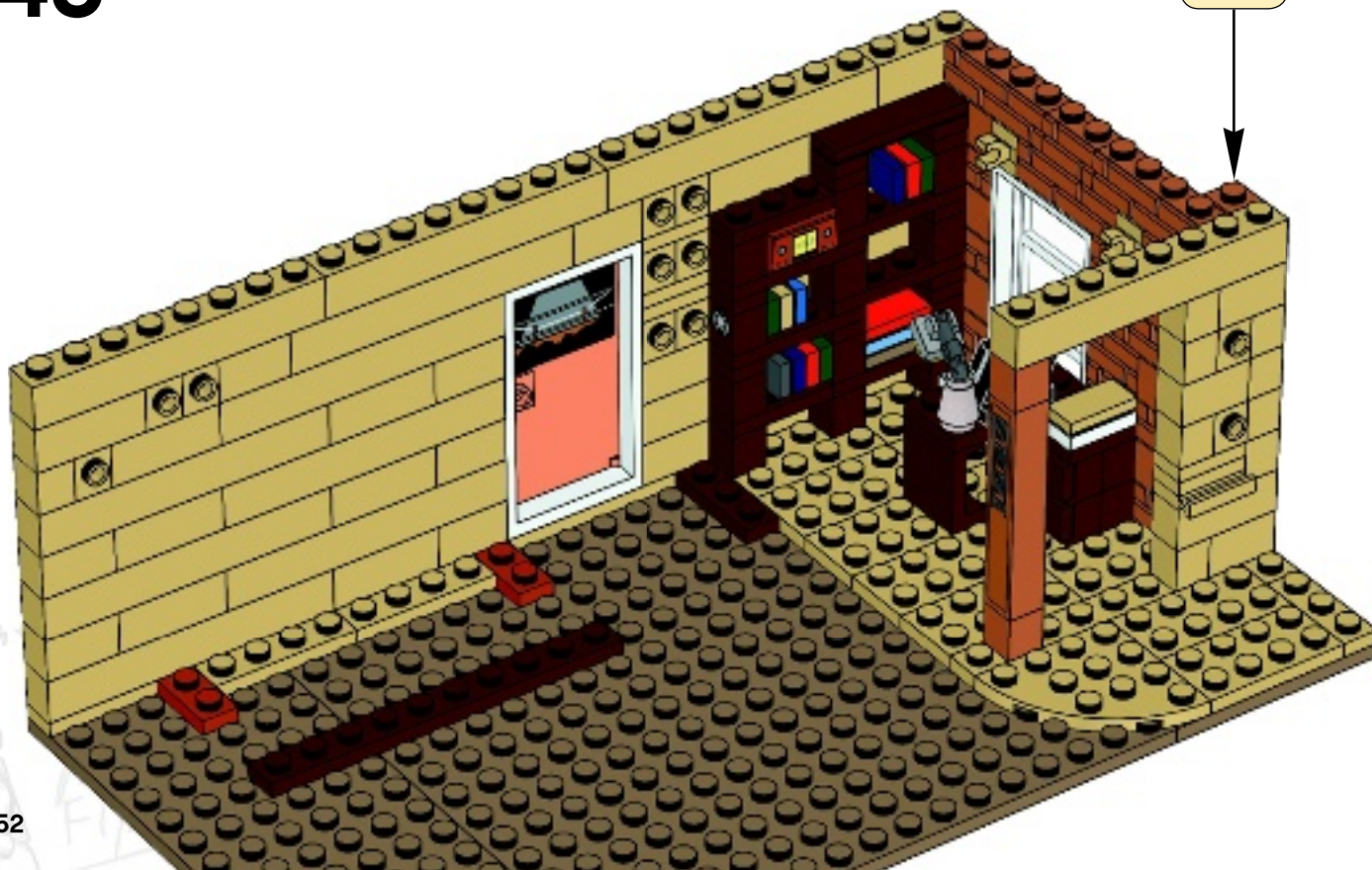


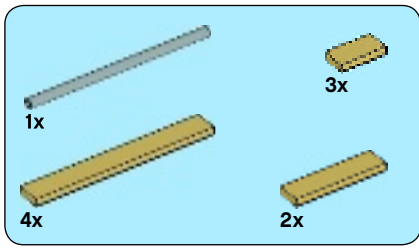
44



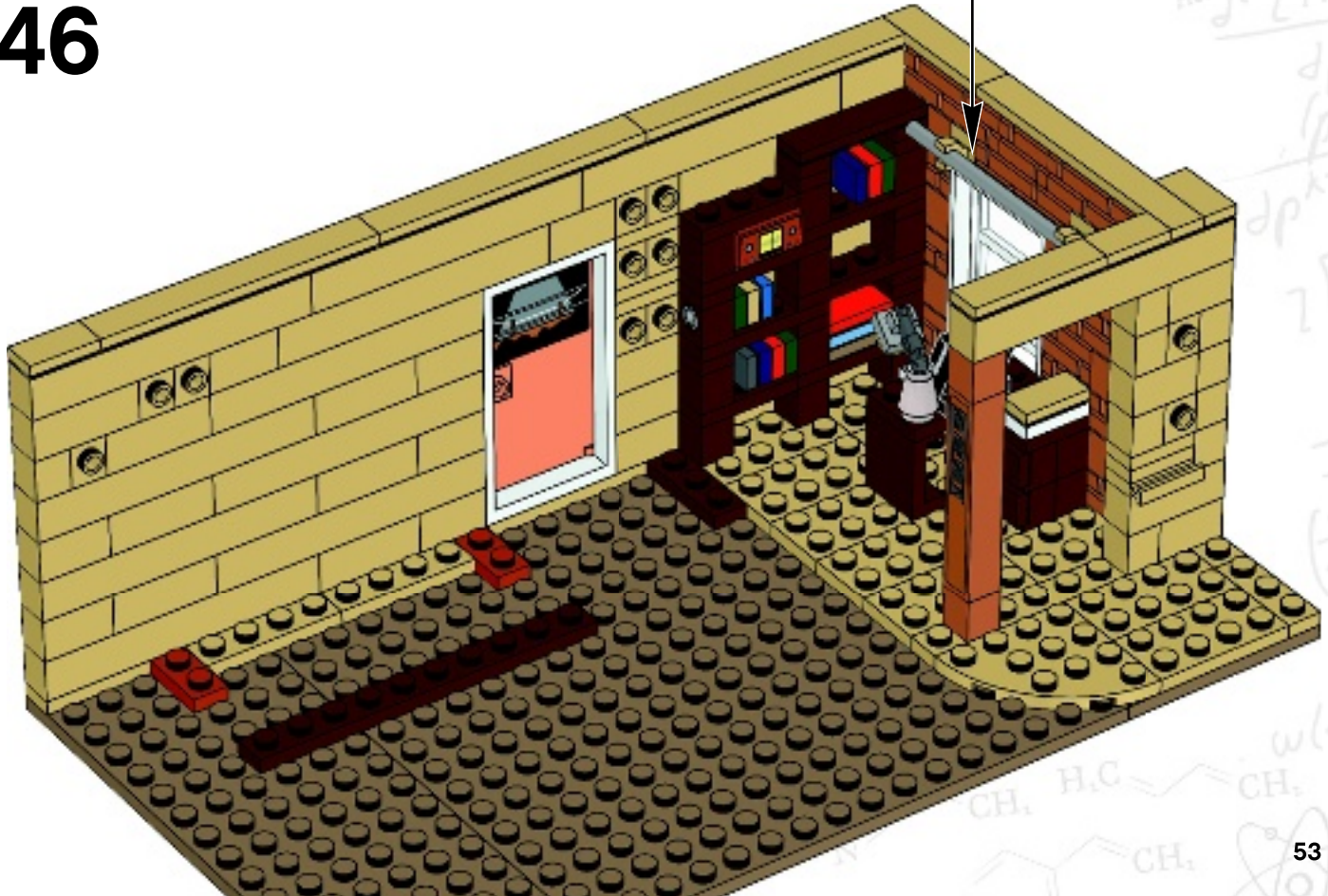
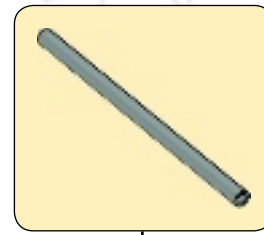


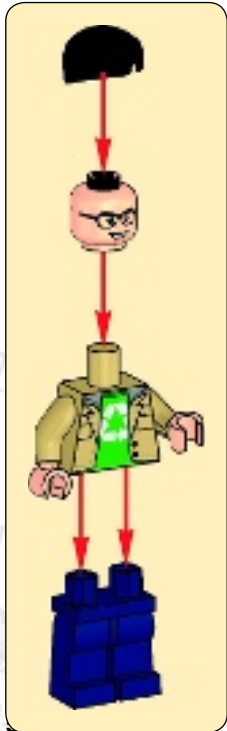
45

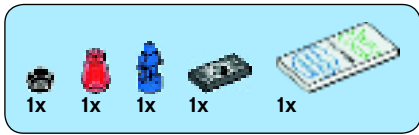




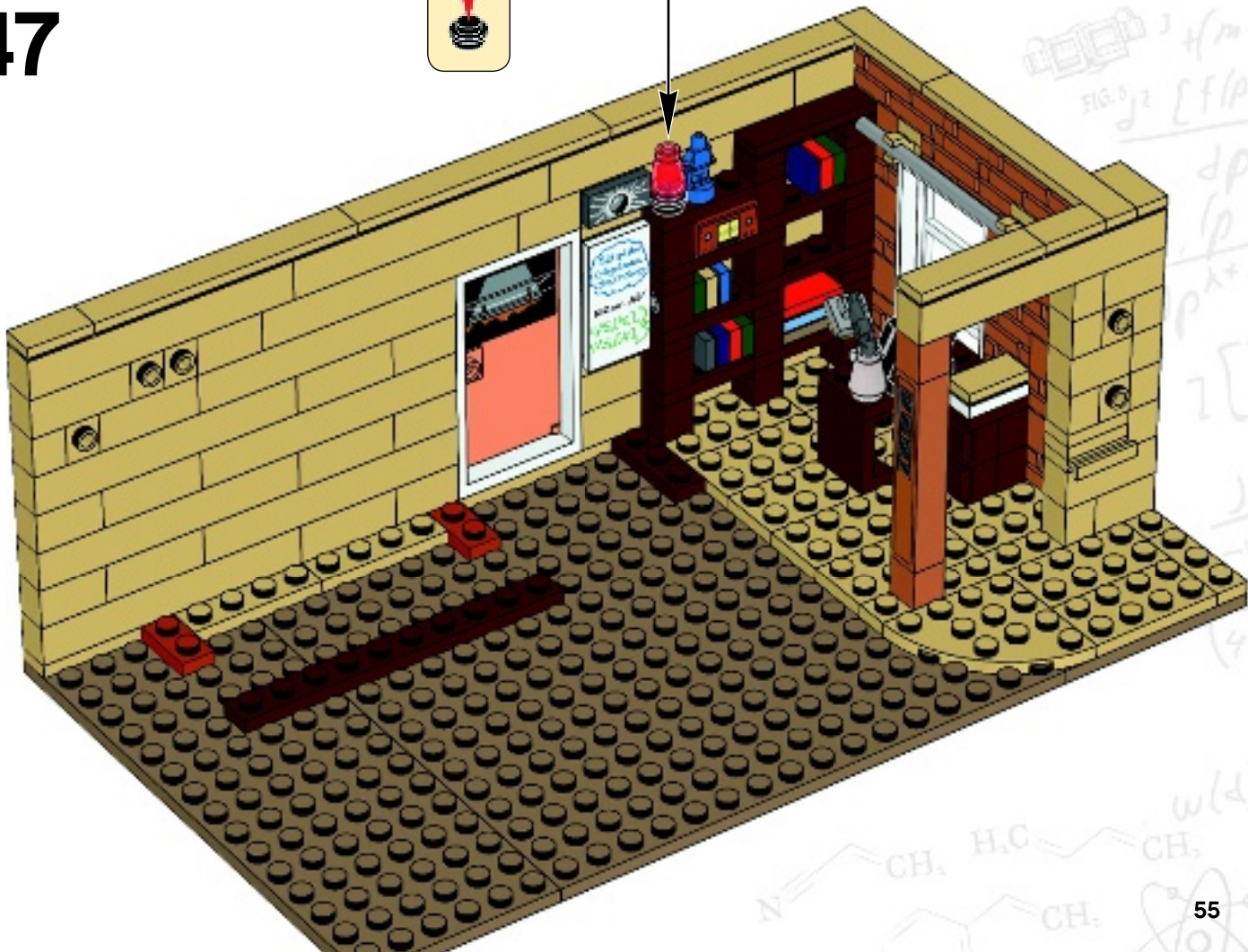
46

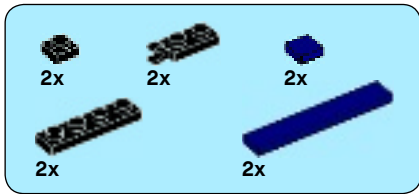




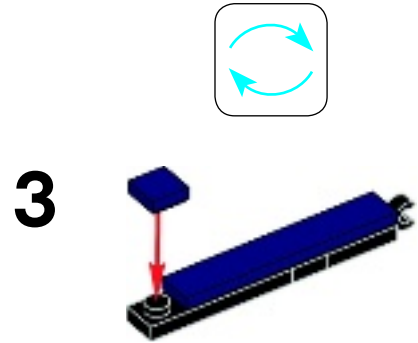
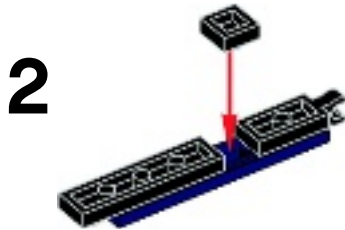
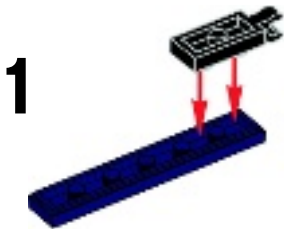


47



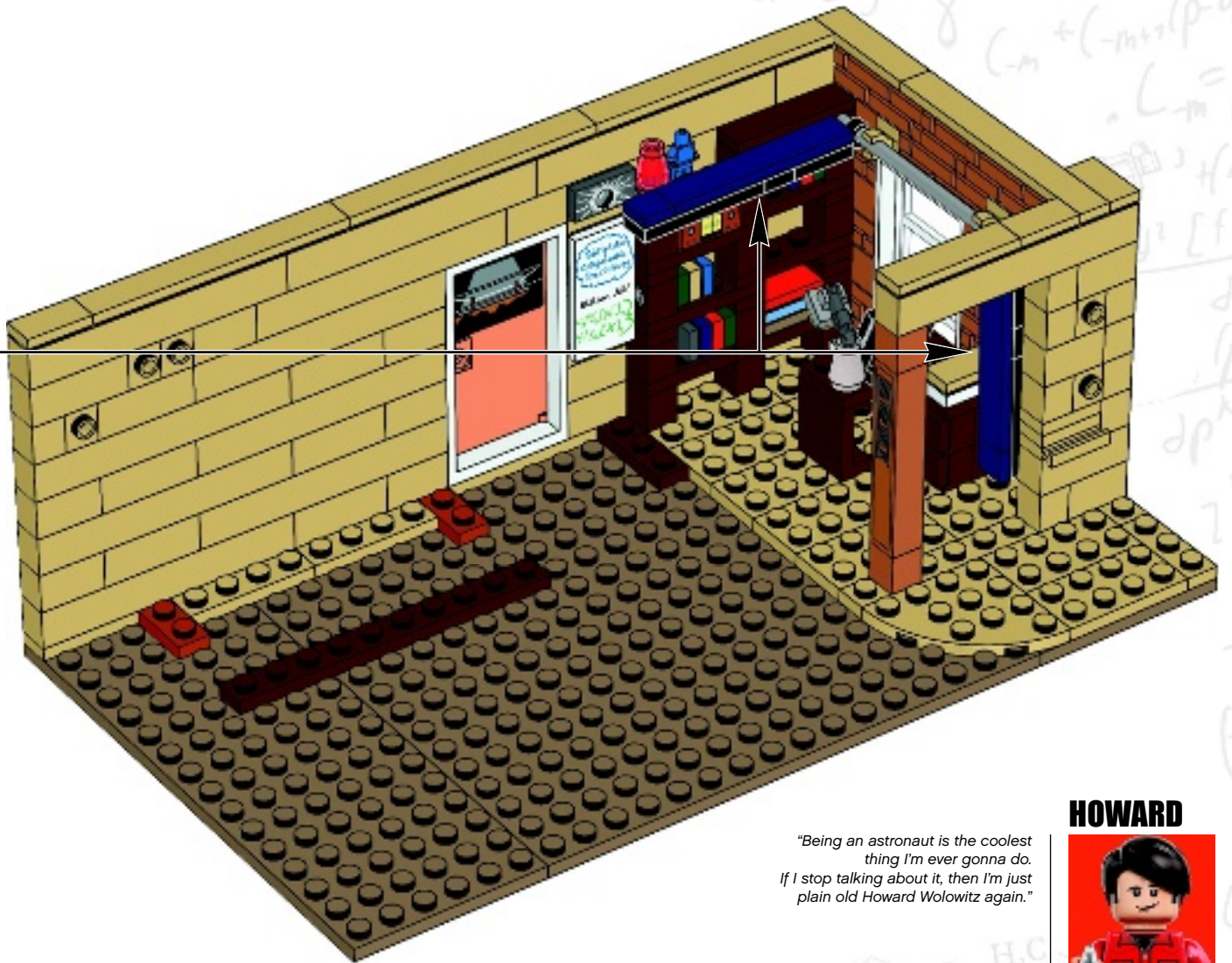


48



2

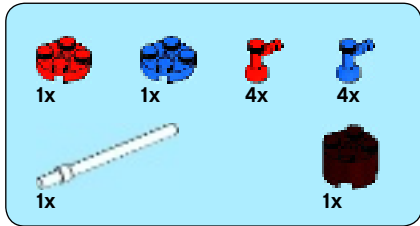
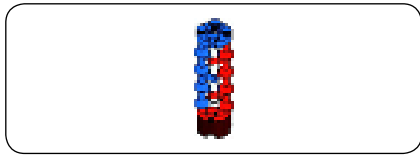
$-m+1 = p \cdot m$
 $(p-d)^m$
 $F(p) (p-d)^m$



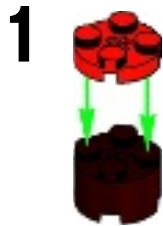
HOWARD

"Being an astronaut is the coolest thing I'm ever gonna do. If I stop talking about it, then I'm just plain old Howard Wolowitz again."





49



2

$-m+1 = p \cdot m$
 $(p-2)^m$

$F(p)(p-2)^m$

58

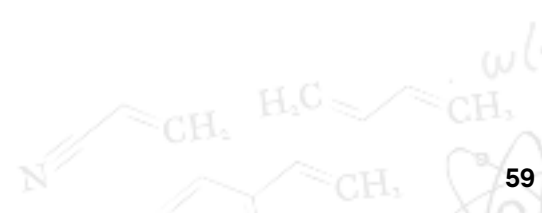
4

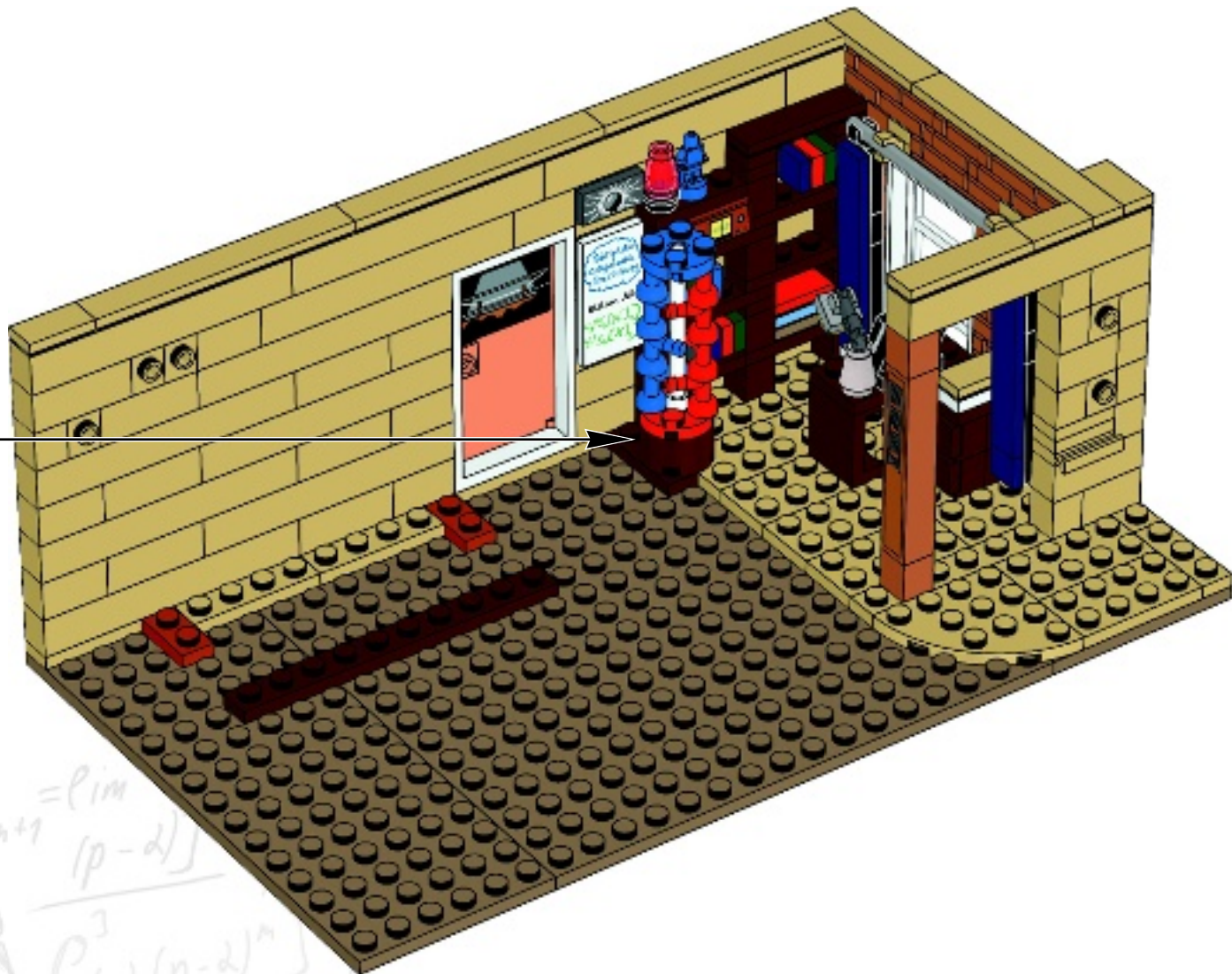


5



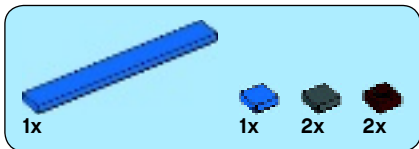
6



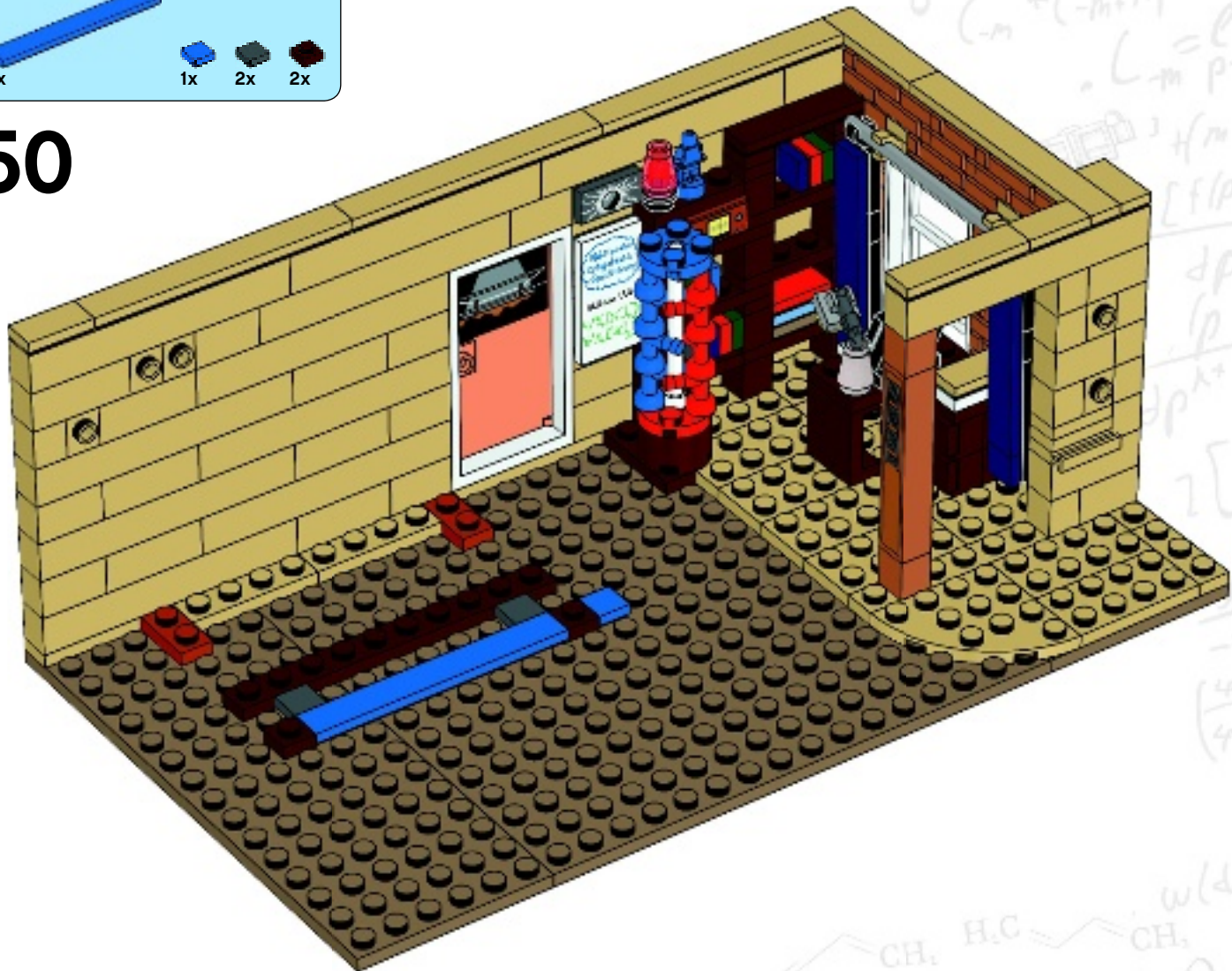


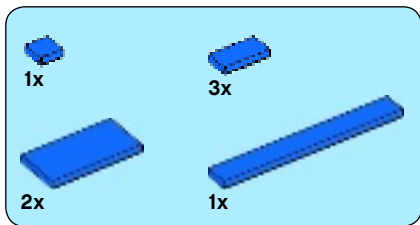
2

$= \frac{p!m}{(p-d)!}$
 $F(p)(p-d)^m$

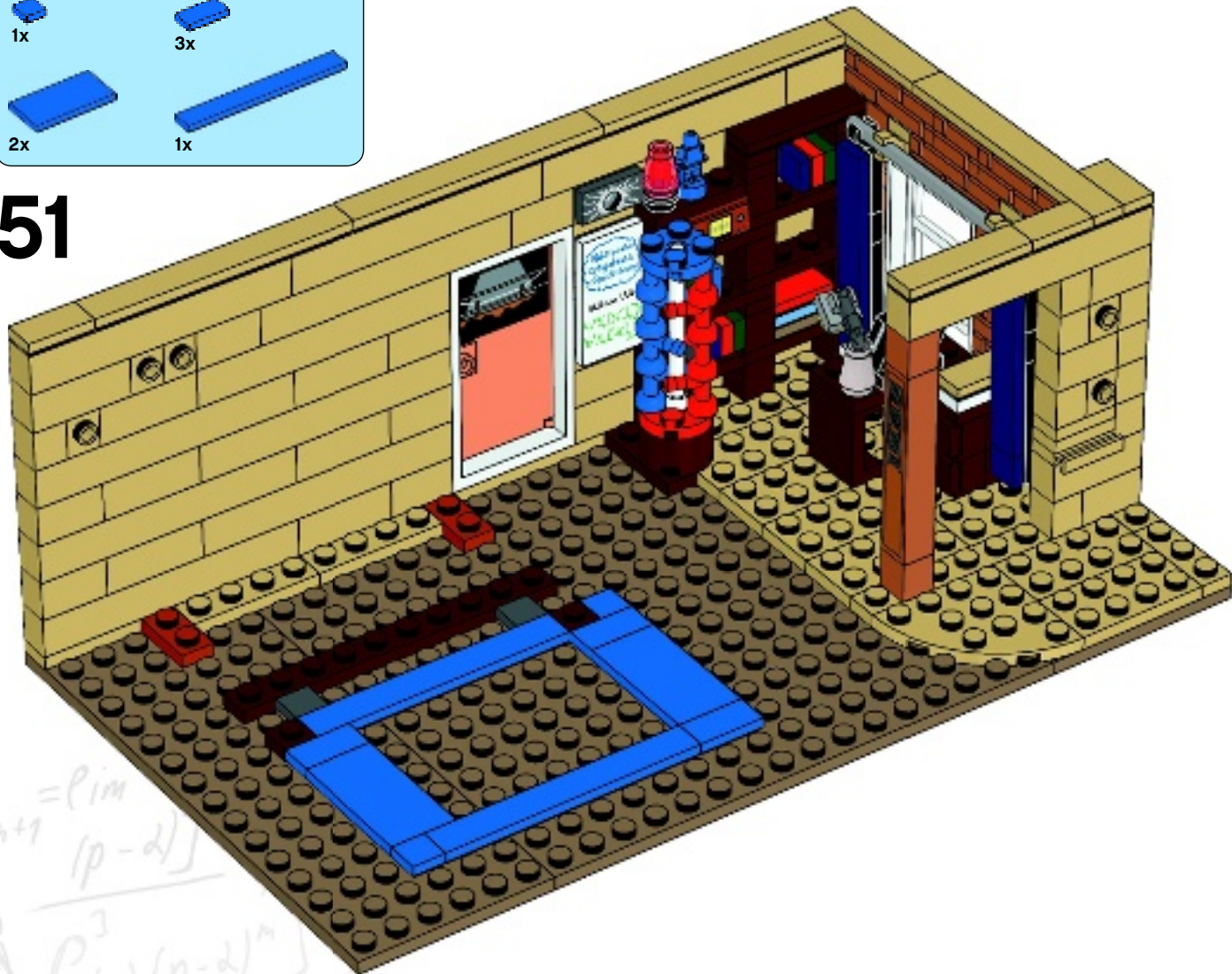


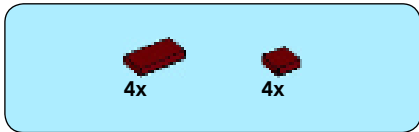
50



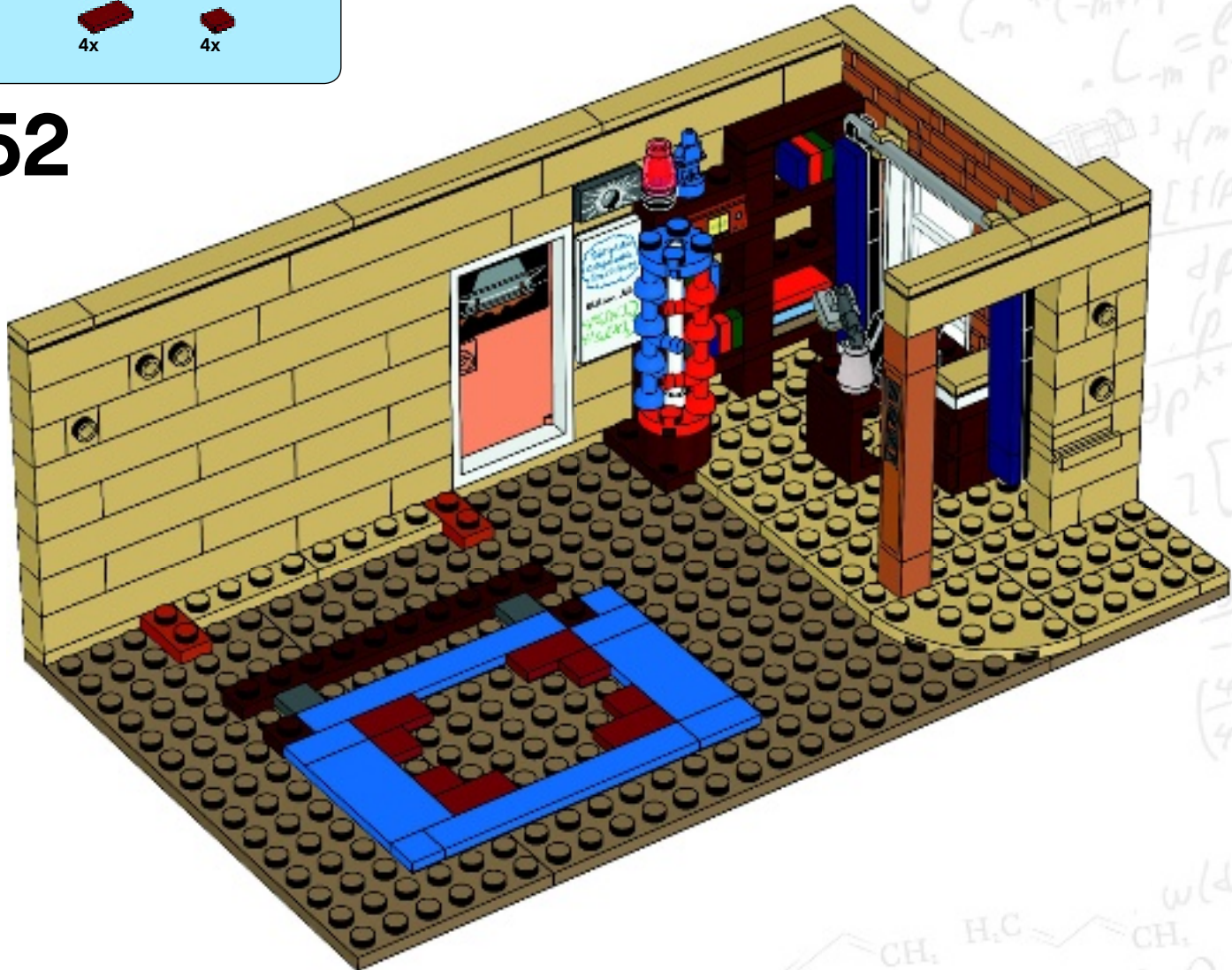


51



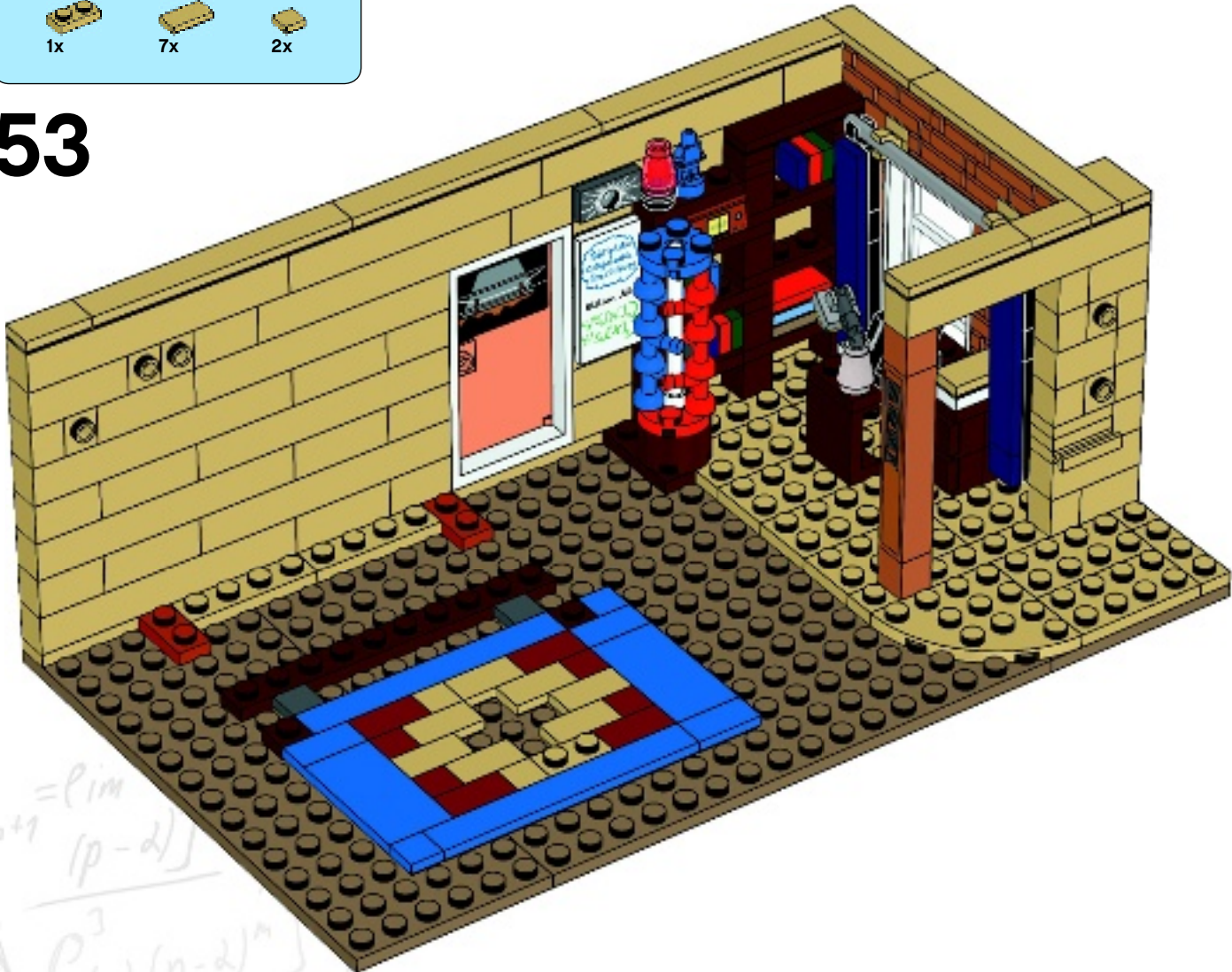


52



1x 7x 2x

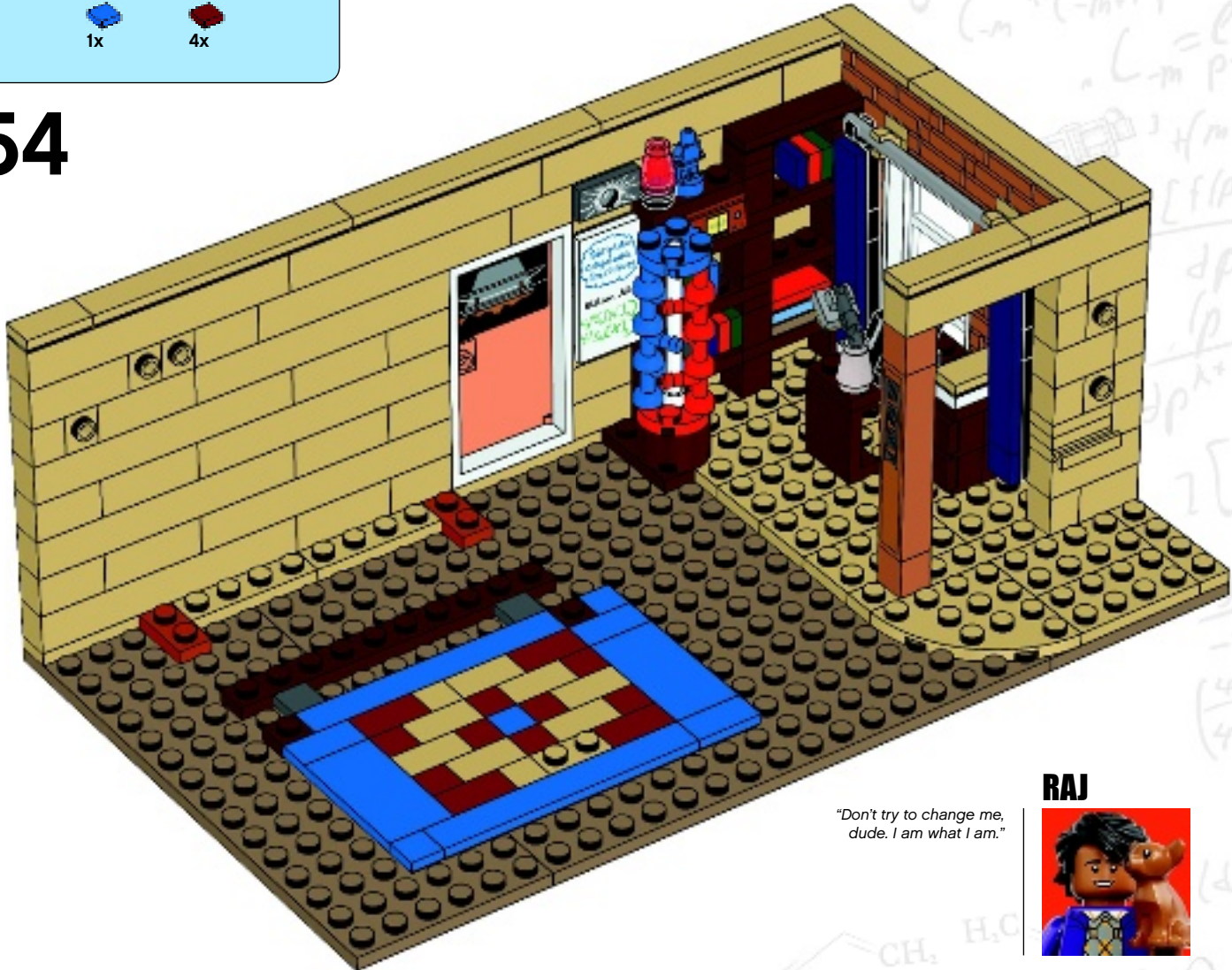
53



1x

4x





54



RAJ

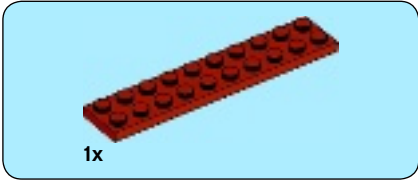
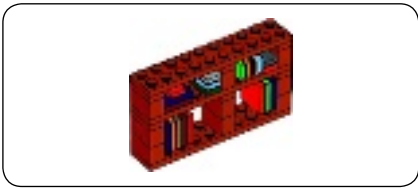
"Don't try to change me, dude. I am what I am."



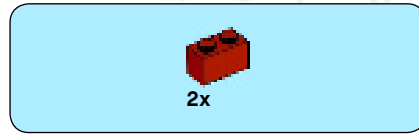
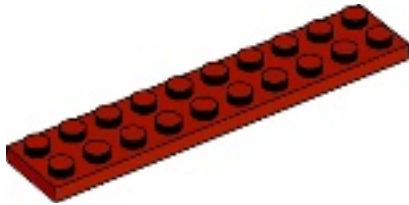
			
4x	1x	2x	1x

55

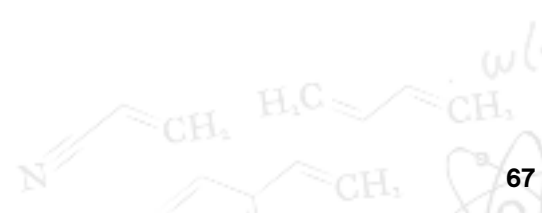
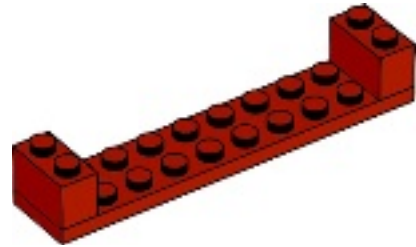




1



2



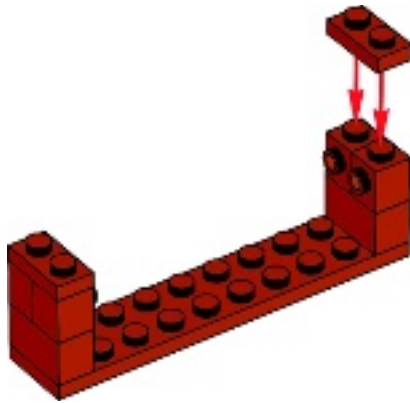


2x



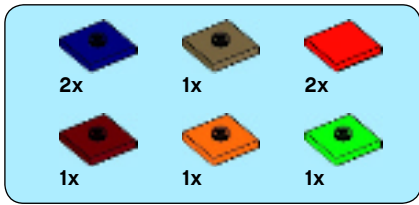
4x

3

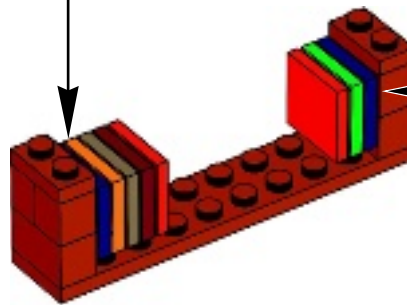
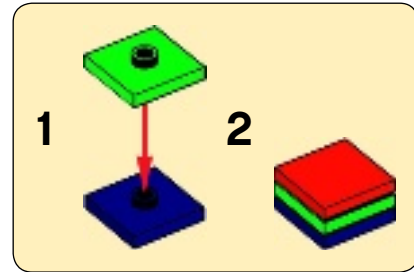
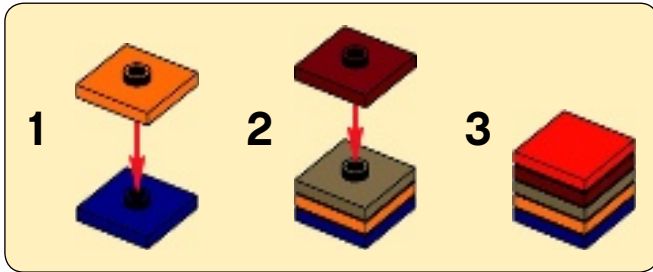


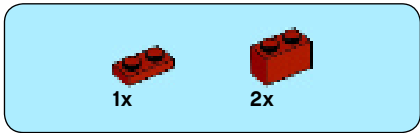
2

$-m+1 = p \cdot i \cdot m$
 $(p-d)^m$
 $F(p) (p-d)^m$
 $m=1$

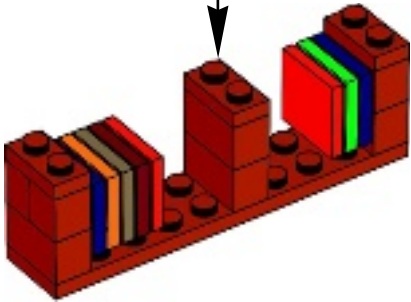
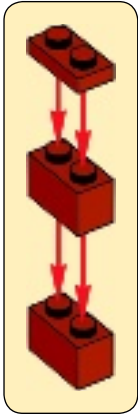


4





5

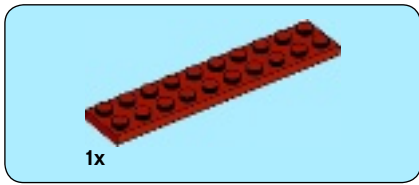


2

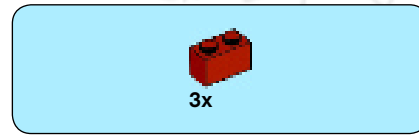
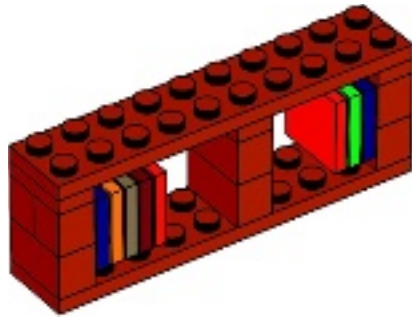
$$\frac{p^{m+1} - p^{m+1}}{(p-2)^m}$$

$$\frac{p^3}{F(p)(p-2)^m}$$

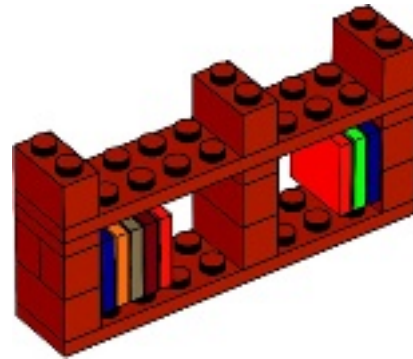
$$\frac{p^3}{(p-2)^m}$$



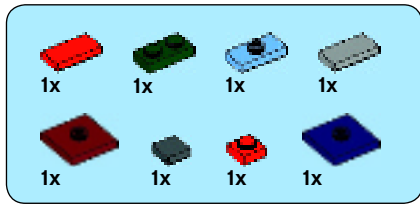
6



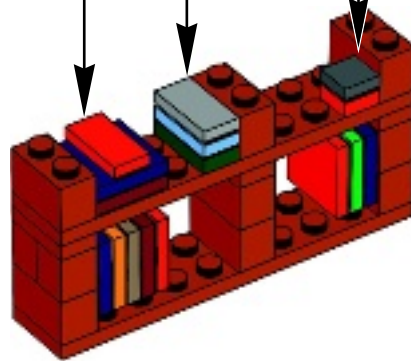
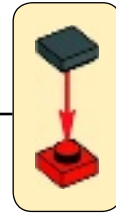
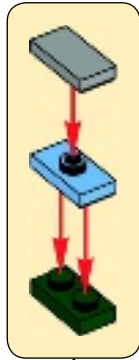
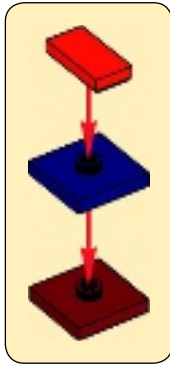
7



$(n-2)!!$
 $(-m + (-m+2)(p-q) + \dots)$
 $L = l$
 $L = m p =$
FIG. 52 [f/p]
 $\frac{dp}{p}$
 $\frac{dp}{p^{1+}}$
 $z[$
 $\frac{1}{4}$
 $\frac{1}{4}$
 $\omega(d)$
 $N \equiv C = CH_2$
 $H_2C = CH - CH_2$
 CH_2
71



8



2

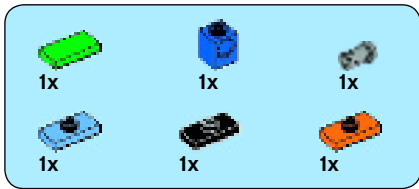
$= \rho_{im}$

$[-m+1 \quad (p-d)^m]$

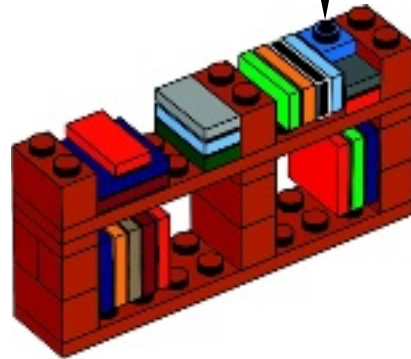
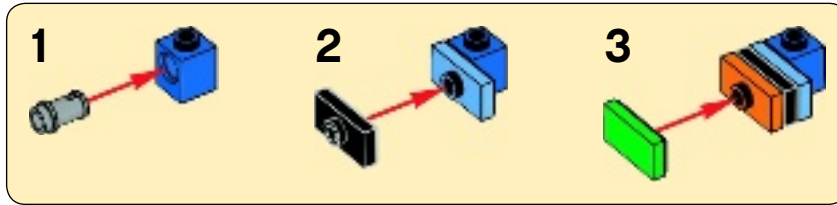
ρ^3

$F(p) (p-d)^m$

72



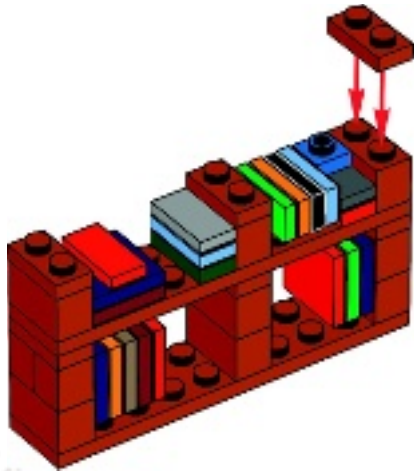
9





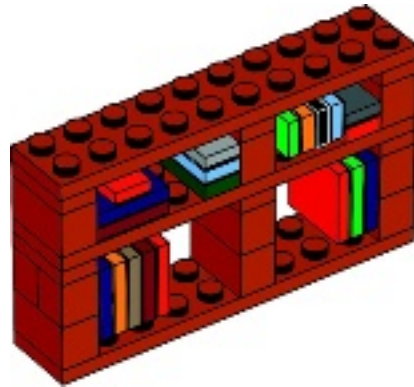
3x

10

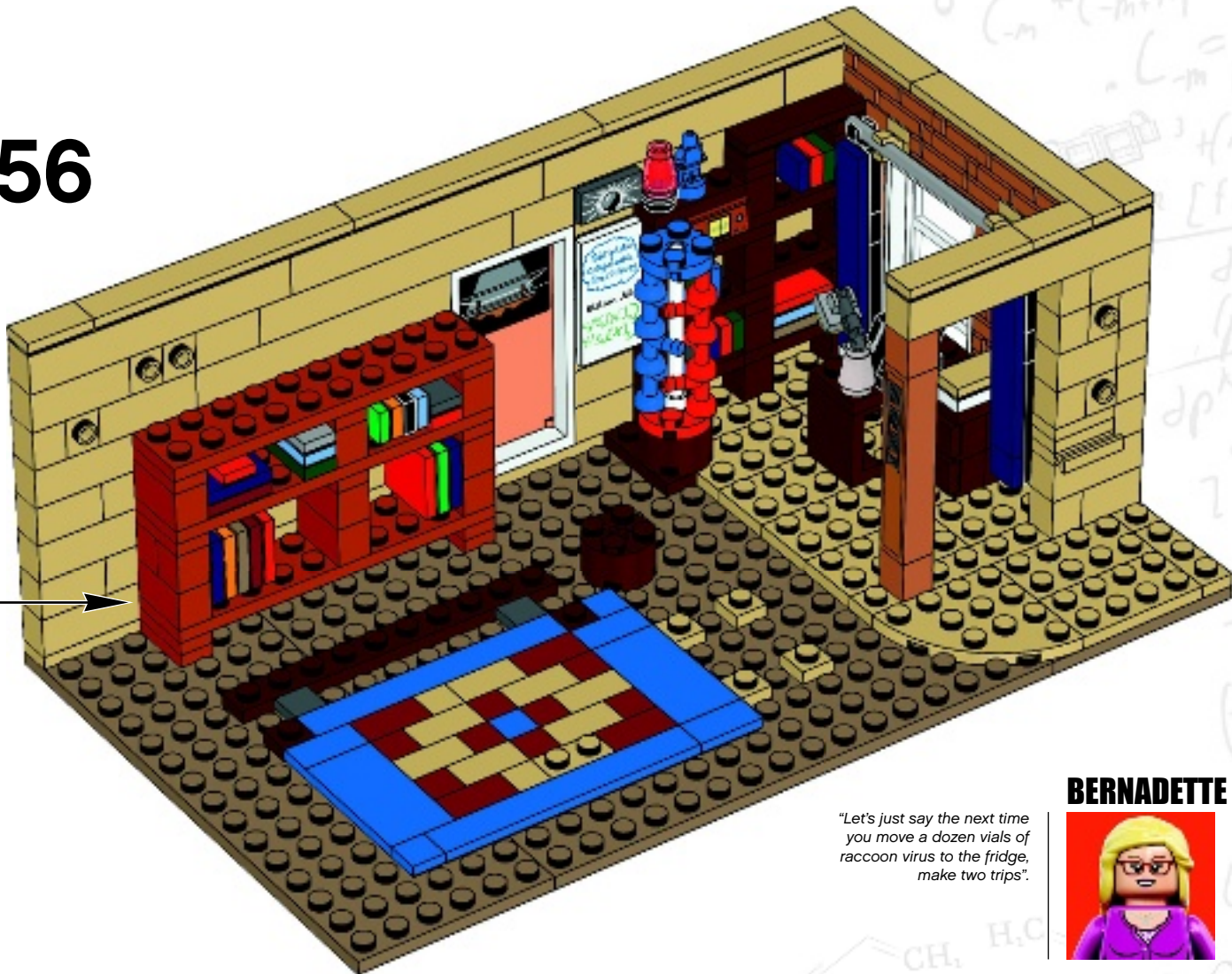


1x

11

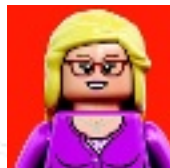


56



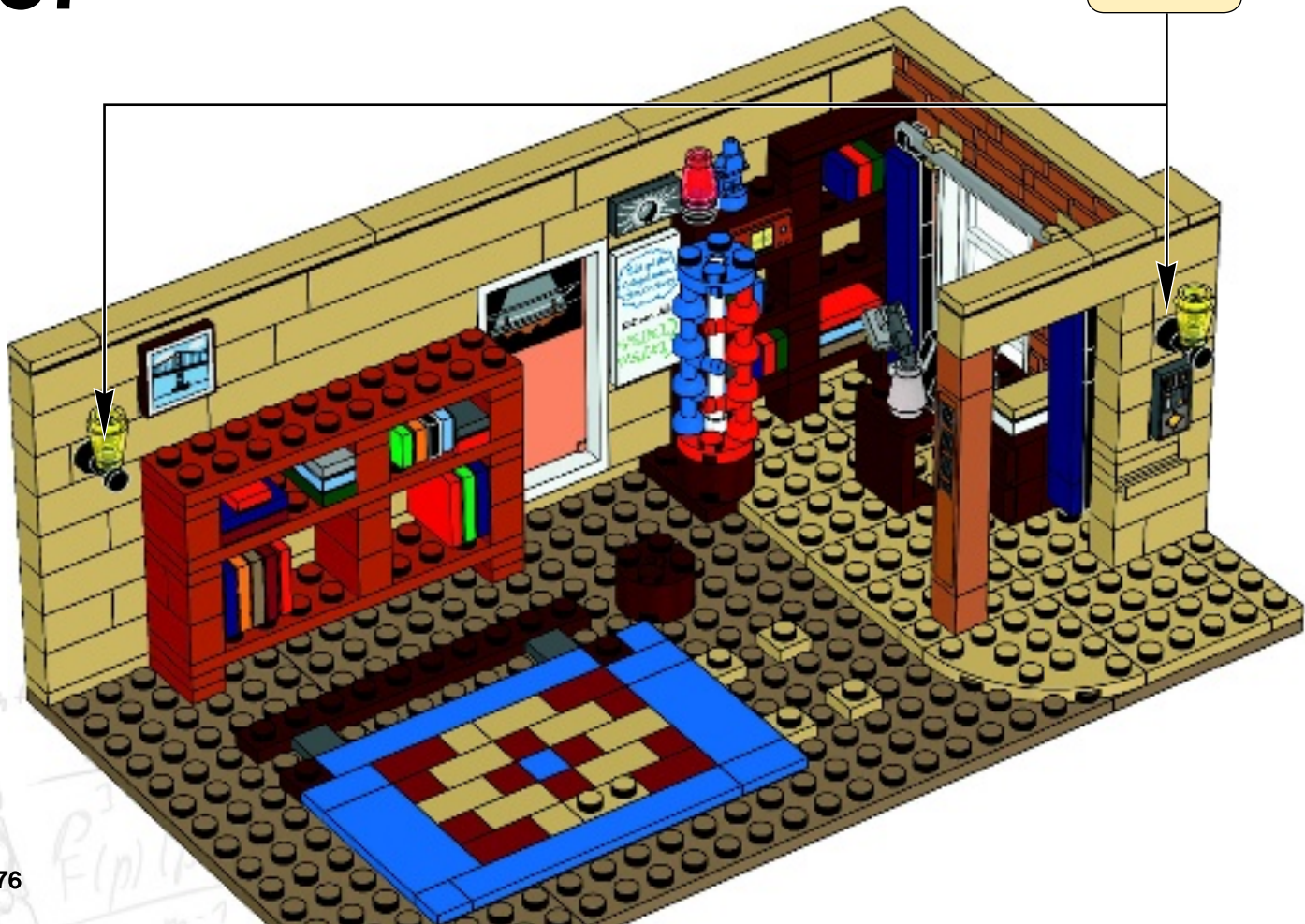
BERNADETTE

"Let's just say the next time you move a dozen vials of raccoon virus to the fridge, make two trips."





57





4x



4x

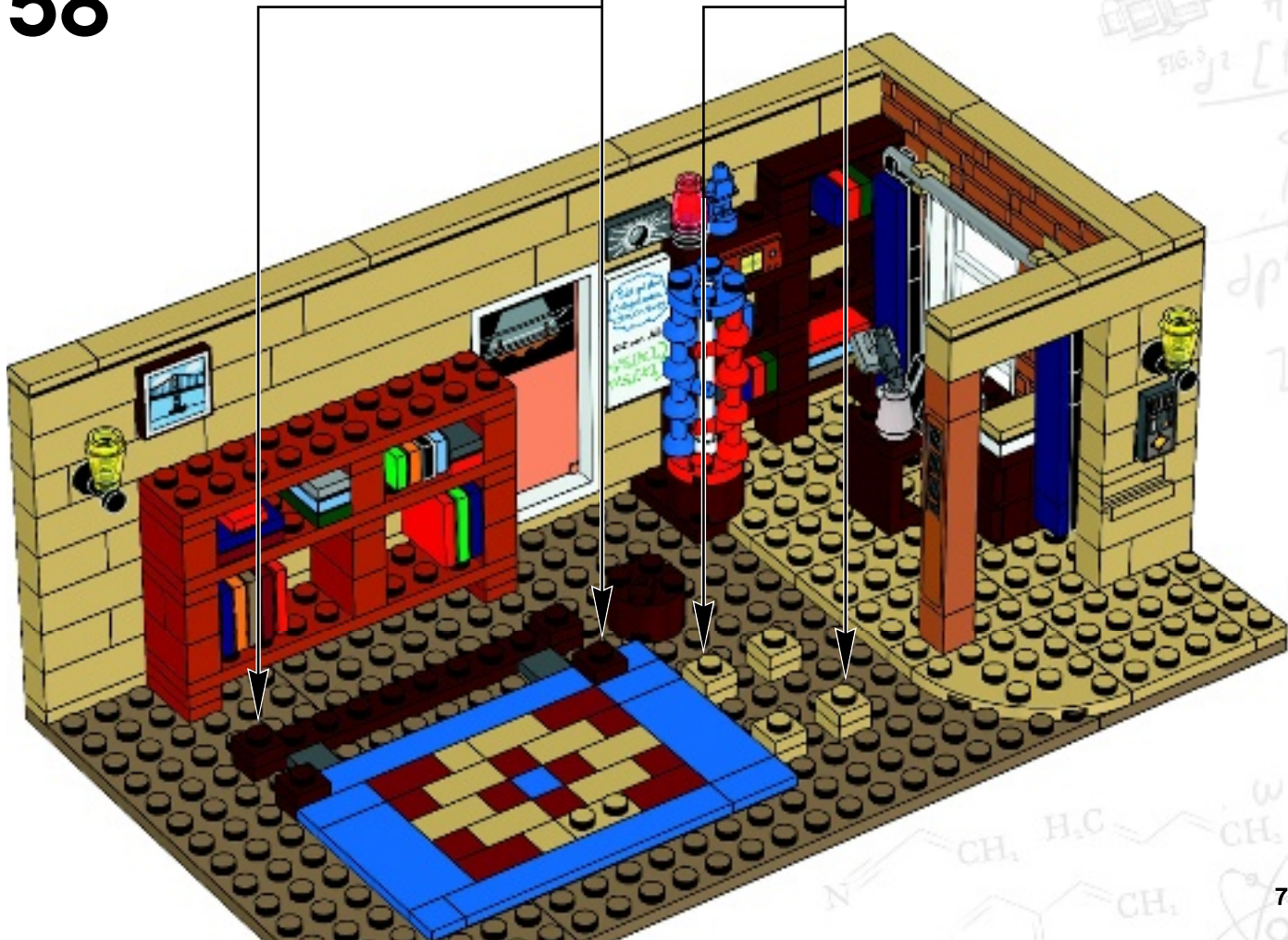
58

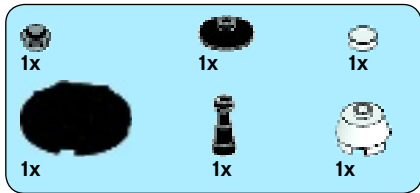


4x

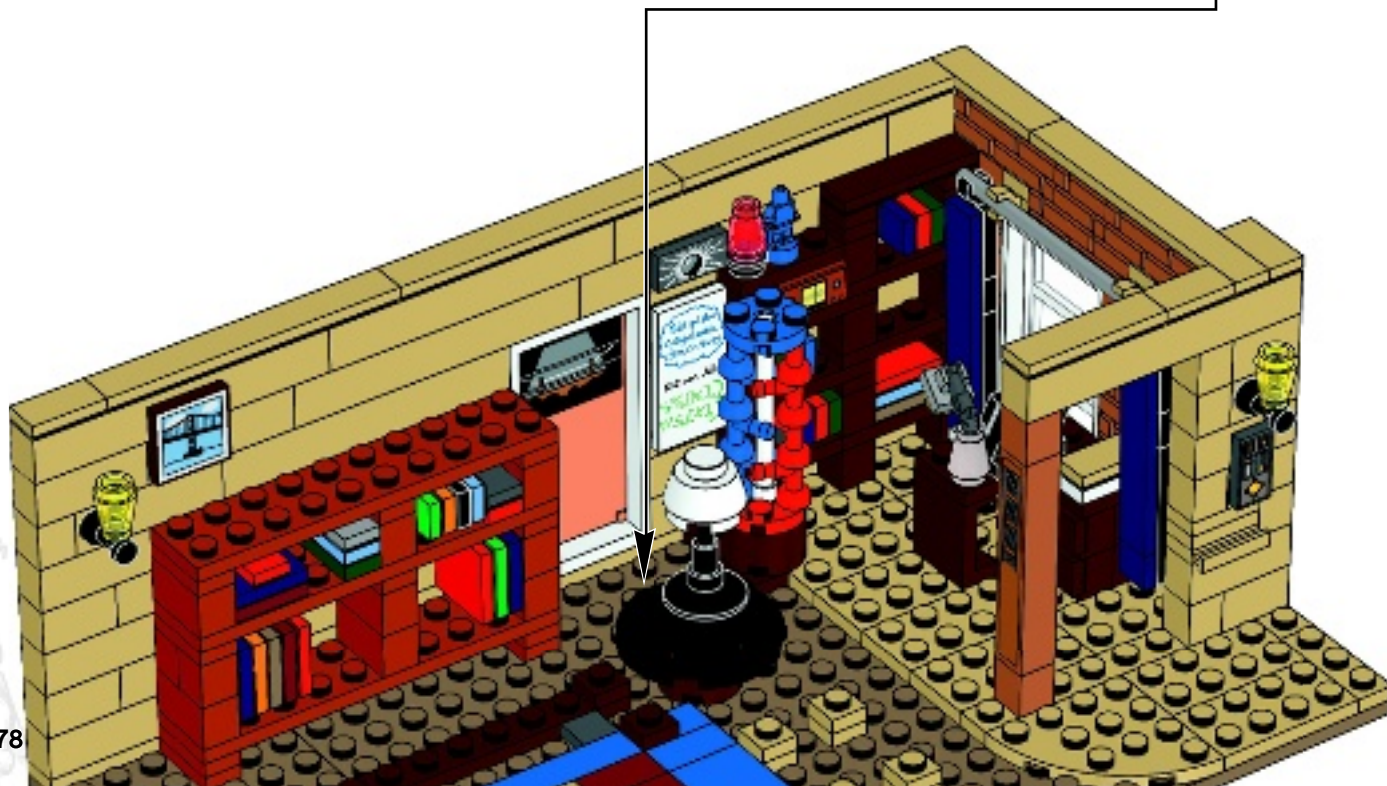
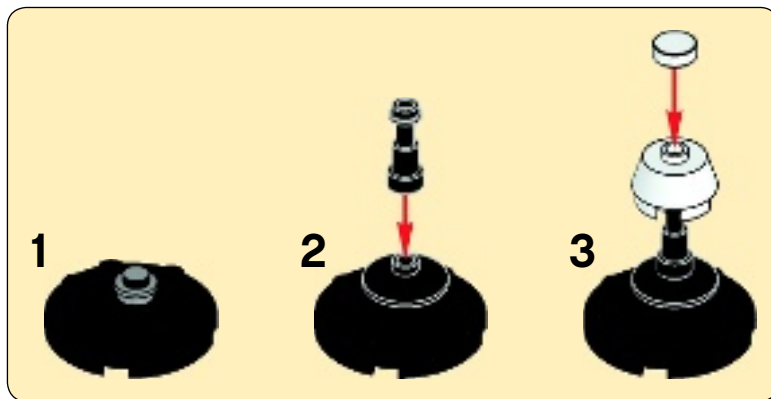


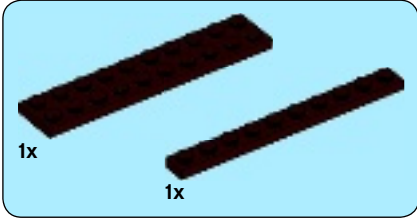
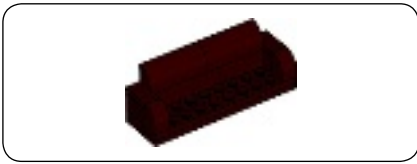
4x



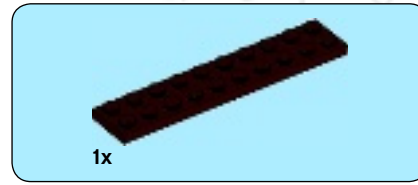
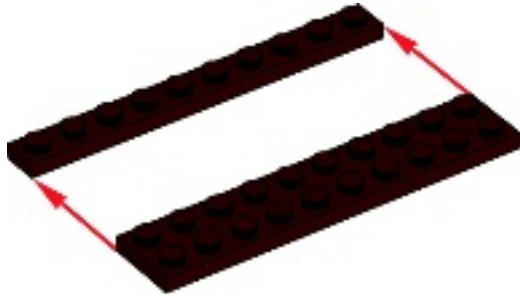


59

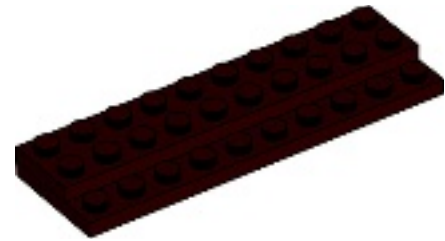




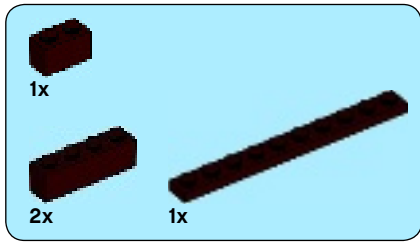
1



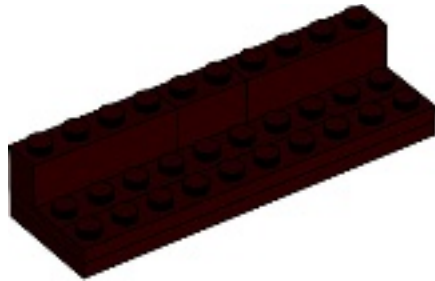
2



$N \equiv C \equiv C - CH_2 - H_2C = C - CH_2$
 $\omega(d)$
79

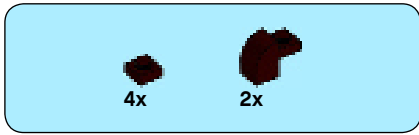


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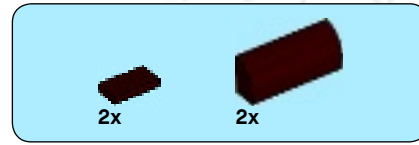
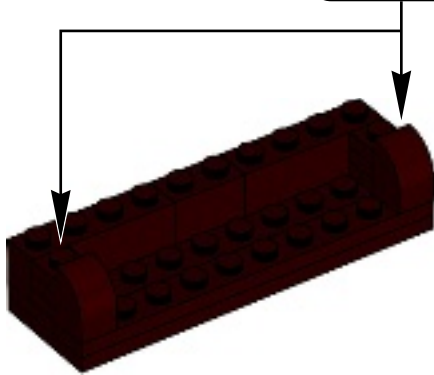
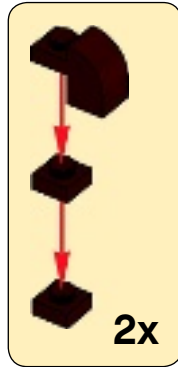


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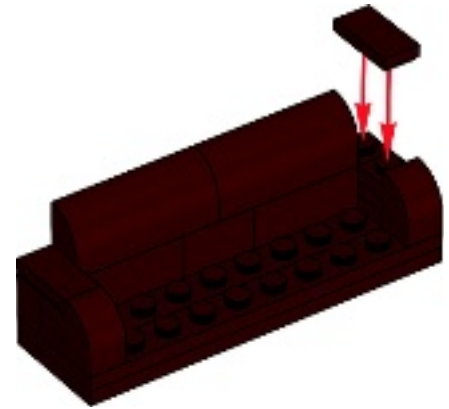
$-m+1 = p \cdot m$
 $\frac{1}{(p-d)^m}$
 $\frac{p^3}{F(p)(p-d)^m}$
 $m=1$



4



5



AMY

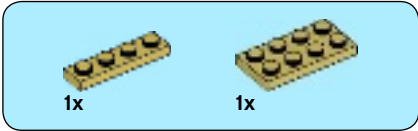
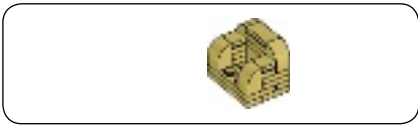
"Actually, our relationship agreement covers a wide array of scenarios, including career changes, financial instability, intelligent dog uprising."



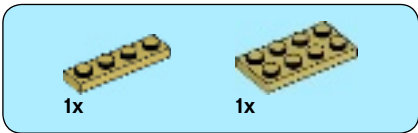
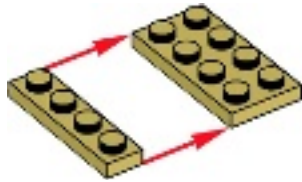
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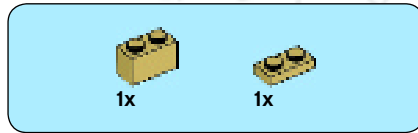
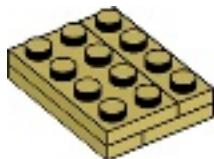
$$= \frac{p^{m+1} - p}{p-2}$$
$$F(p)(p-2)^m$$



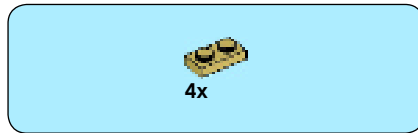
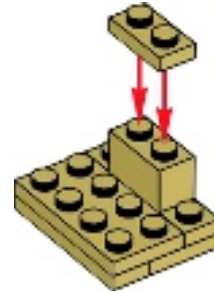
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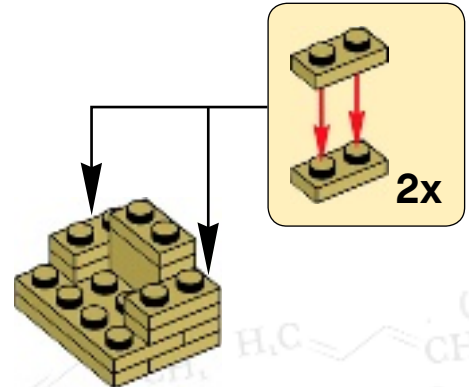
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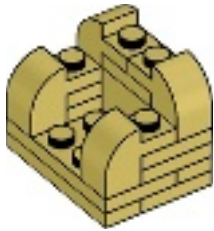
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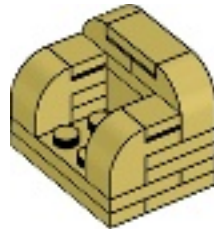


1x

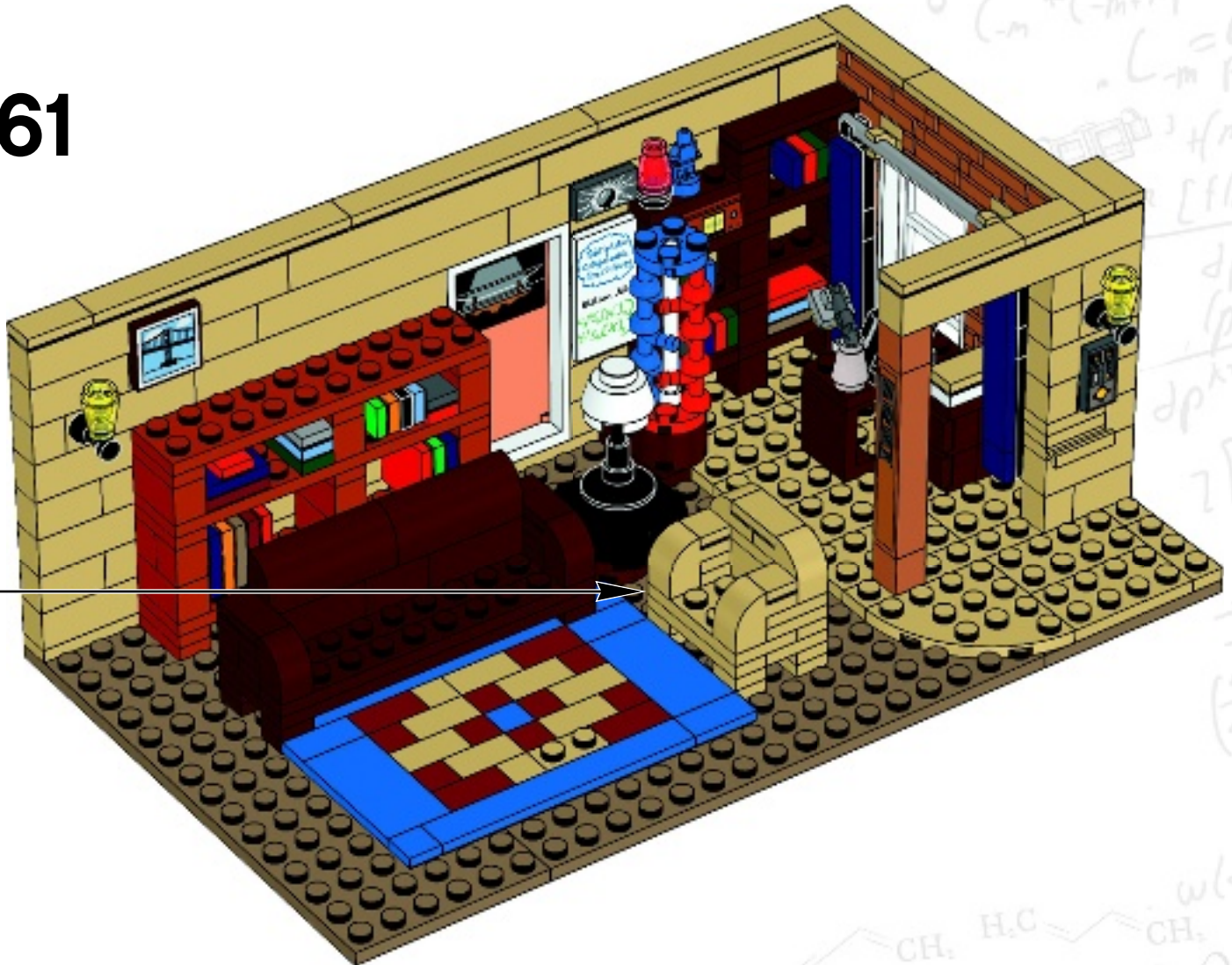


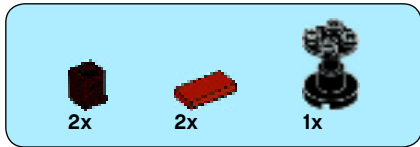
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6

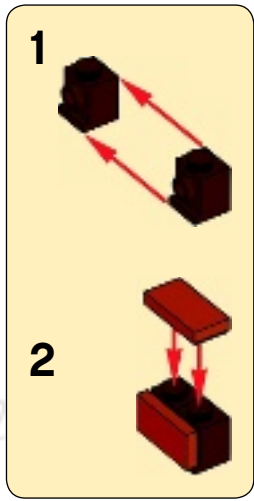


61





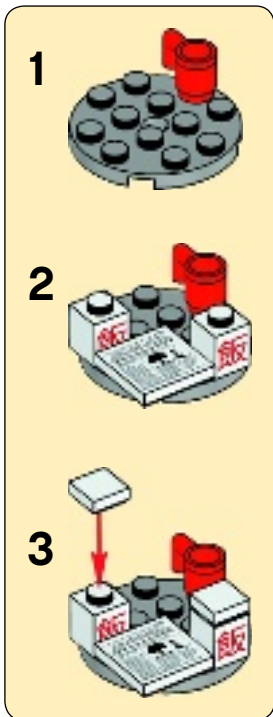
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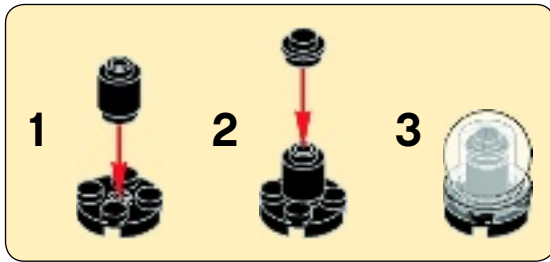
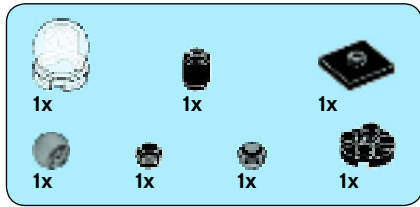


$$-m+1 = p \cdot m$$
$$\frac{p^3}{F(p)(p-2)^m}$$

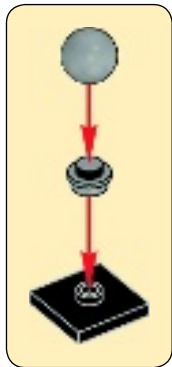


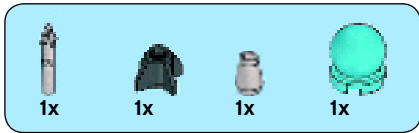
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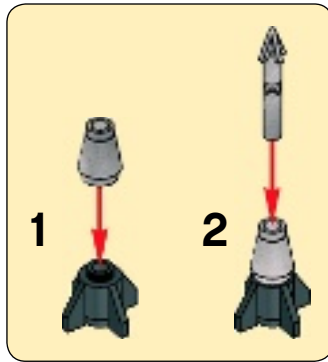


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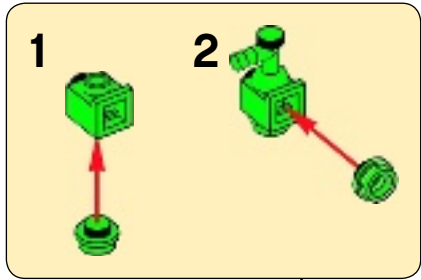


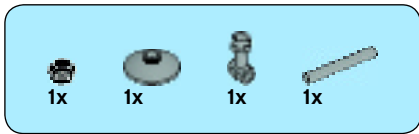
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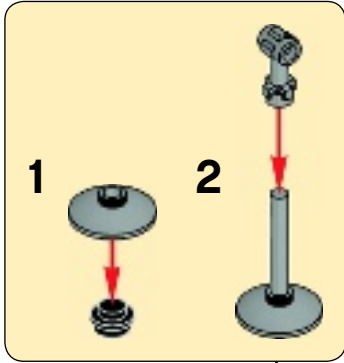
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66



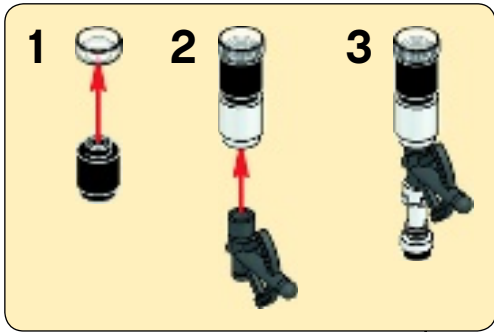


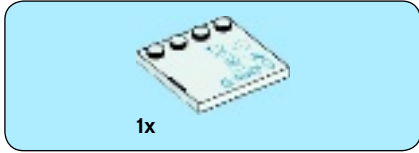
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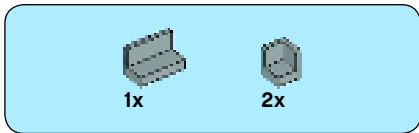
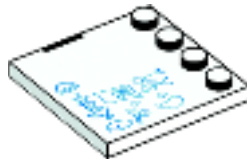


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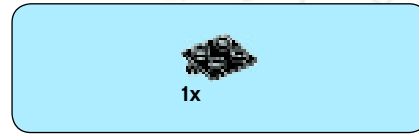
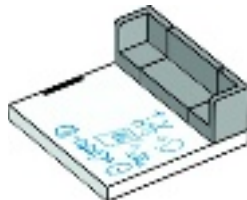




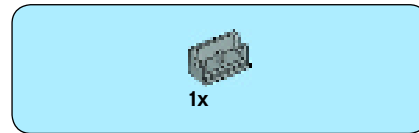
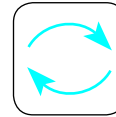
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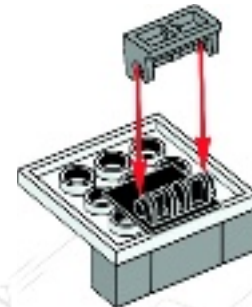
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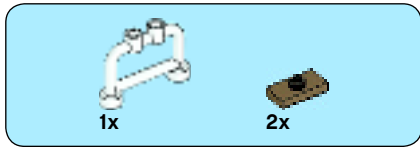


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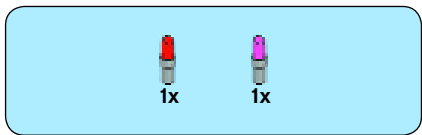
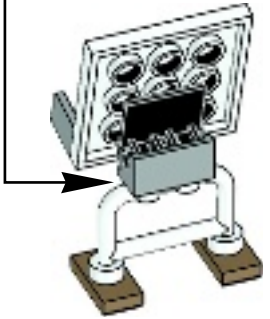
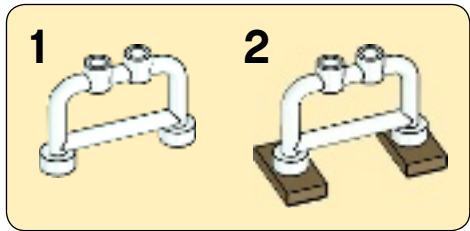


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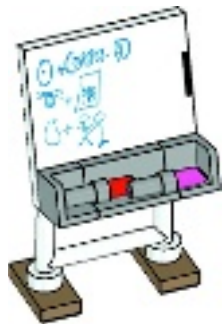
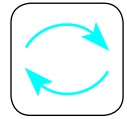




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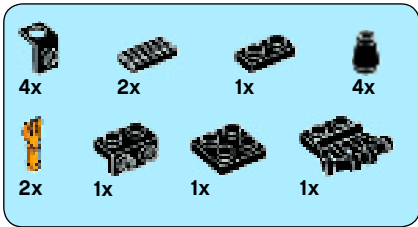
6



2
-m+1 = p im
(p-d)^m
F(p)(p-d)^m

69





70



1



2



3

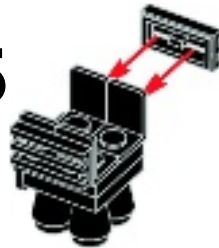


Handwritten mathematical notes in the bottom left corner, including the expression $\frac{p^3}{F(p)(p-2)^m}$ and other symbols.

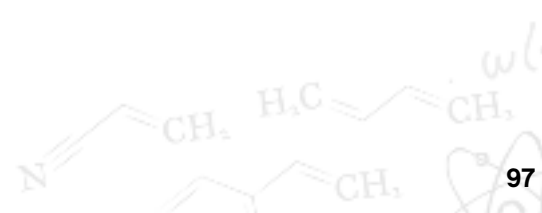
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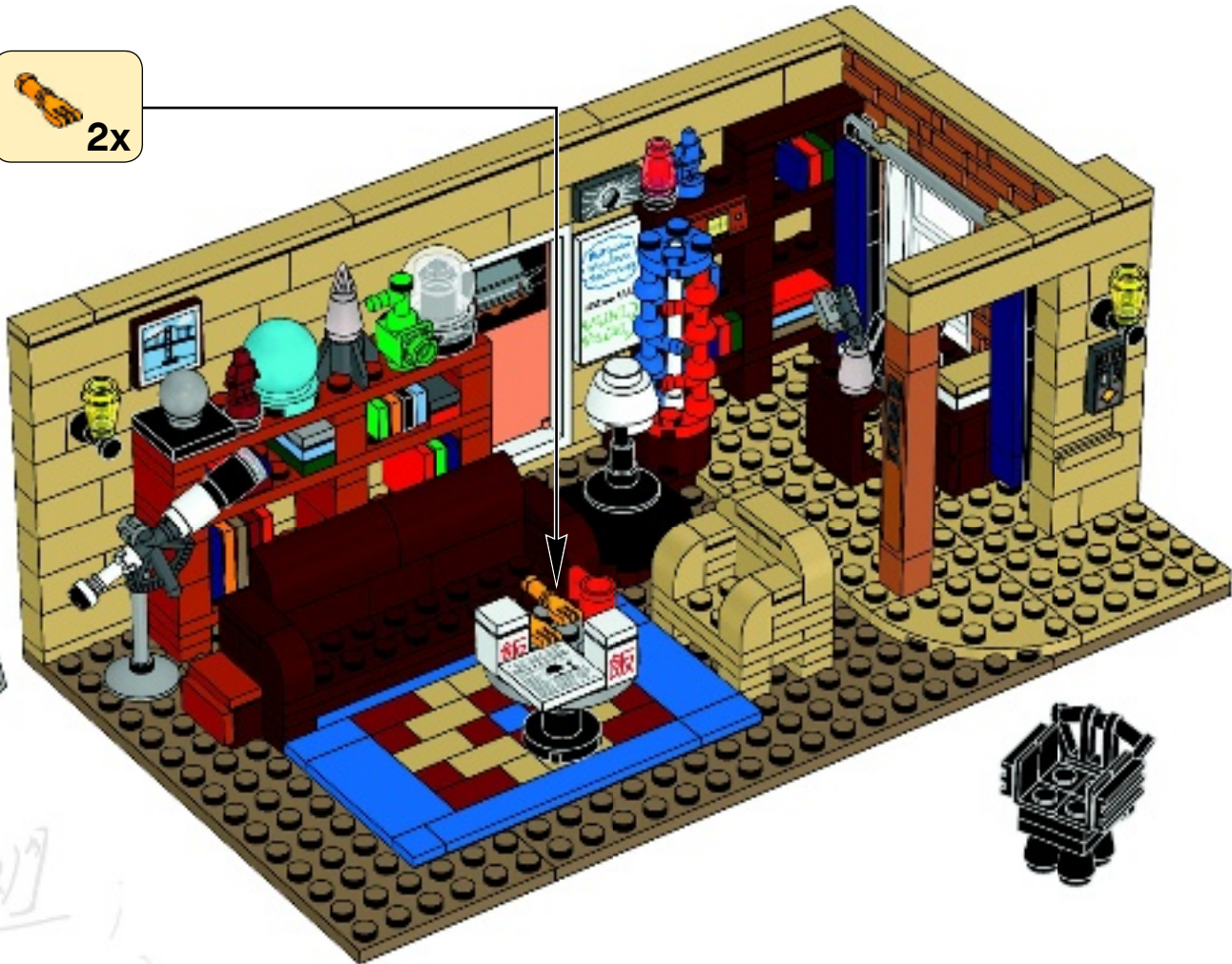


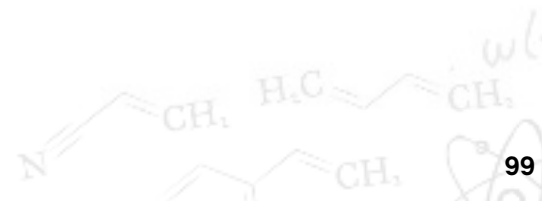
5



6







THE DESIGNERS

“Knock knock knock Alatariel, knock knock knock Alatariel, knock knock knock Alatariel...”

Glen Bricker (Glen Wadleigh) had to “pull a Sheldon” for months to convince Alatariel (Ellen Kooijman) that *The Big Bang Theory* LEGO® set she built would make a great LEGO Ideas project. “As a fan of the show I had built the set to have a fun display piece on my shelf. I didn’t think it would stand a chance at being produced, but Glen was certain this would be a hit.”

The real-life scientist (Ellen) and programmer/engineer (Glen), who became friends through the LEGO Ideas platform (formerly Cuusoo), decided to team up and give the popular show they both very much relate to an official tribute in LEGO form. “Our complementary talents enabled a fruitful collaboration, with Glen in charge of minifigure development and project promotion, and me taking care of set design.”





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If your project gains 10,000 supporters, it will automatically qualify for the quarterly LEGO Review. This is where we take an in-depth look at the most popular projects and carefully evaluate them to discover the idea with the most potential. If your project makes it through the review, it will become an official LEGO product.

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LEGO.COM/IDEAS





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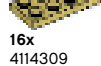
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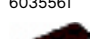
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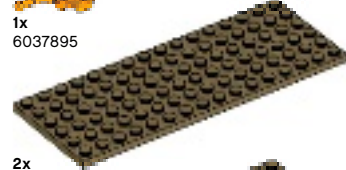
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