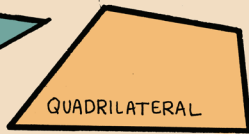
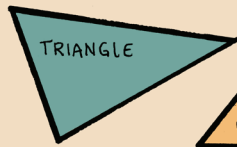
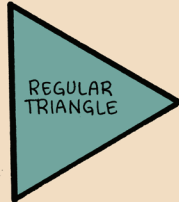


A POLYGON IS A SHAPE WITH AT LEAST THREE STRAIGHT SIDES AND THREE ANGLES.



IN A **REGULAR** POLYGON ALL THE ANGLES ARE EQUAL AND ALL SIDES ARE EQUAL LENGTH.



SO, THIS SQUARE PYRAMID IS A JOHNSON SOLID BECAUSE EACH FACE IS A REGULAR TRIANGLE...

...AND ANY LINE I DRAW BETWEEN POINTS ON DIFFERENT FACES WILL BE INSIDE THE SHAPE.



NICE. MY MOM WOULD BE PROUD OF YOU.

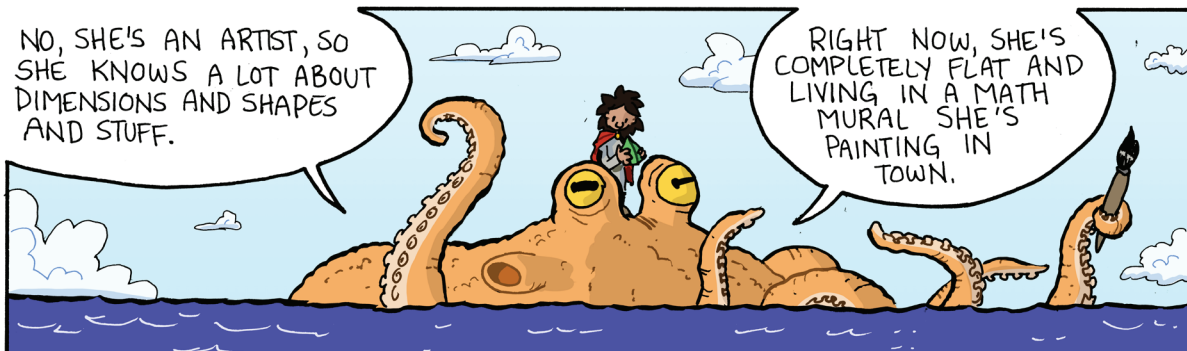
SHE TAUGHT YOU WELL.

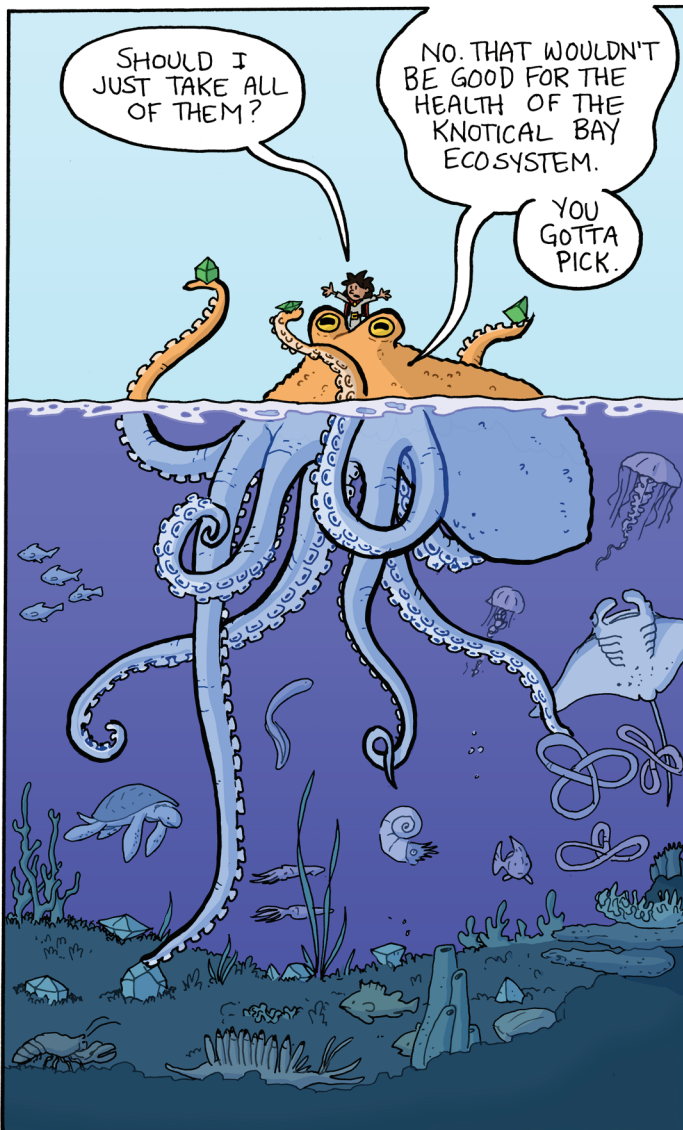
IS SHE A MATHEMATICIAN?

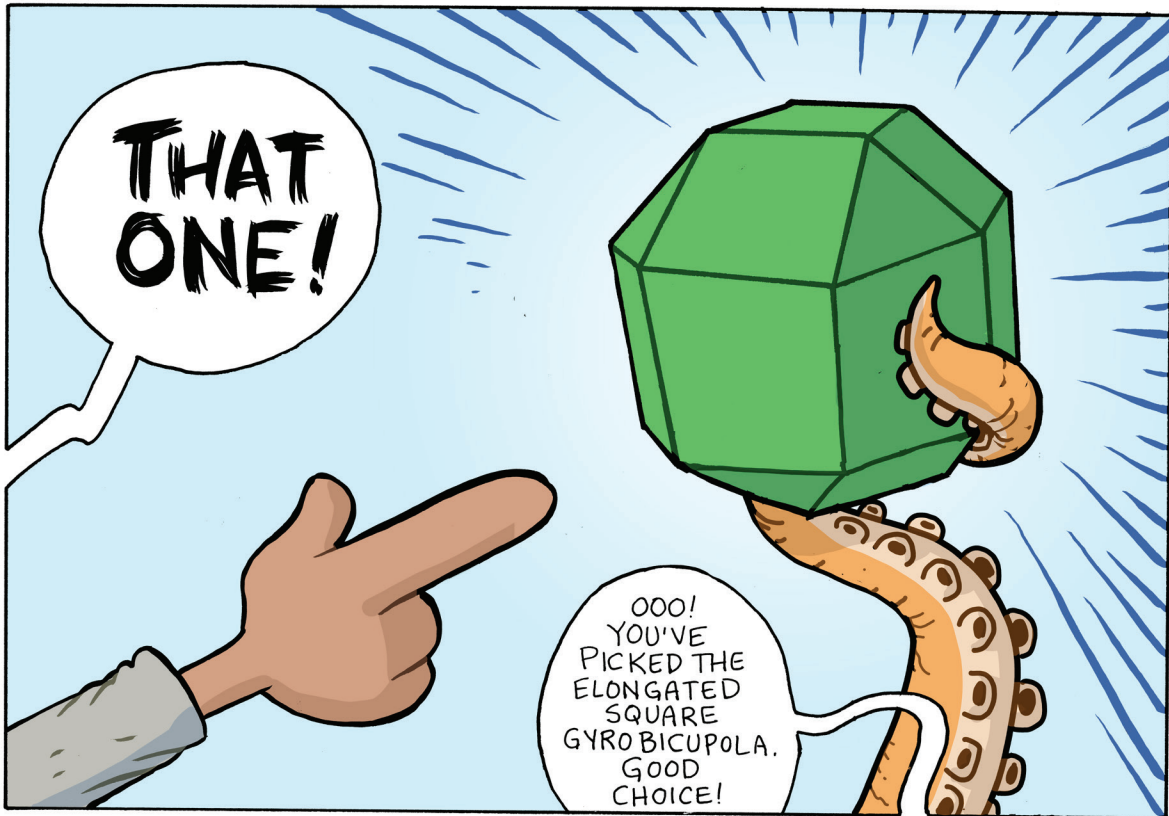


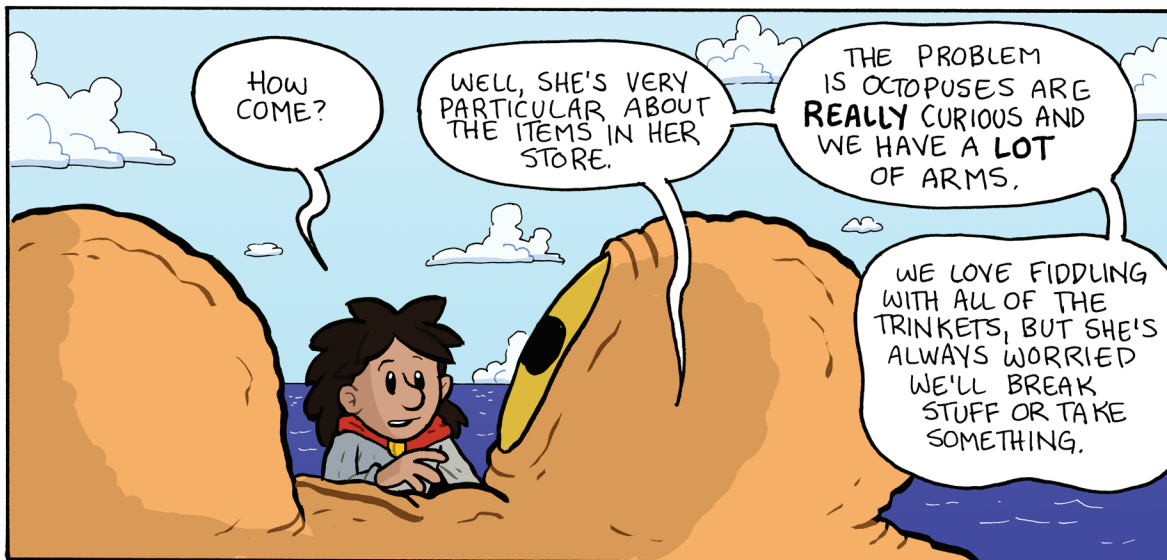
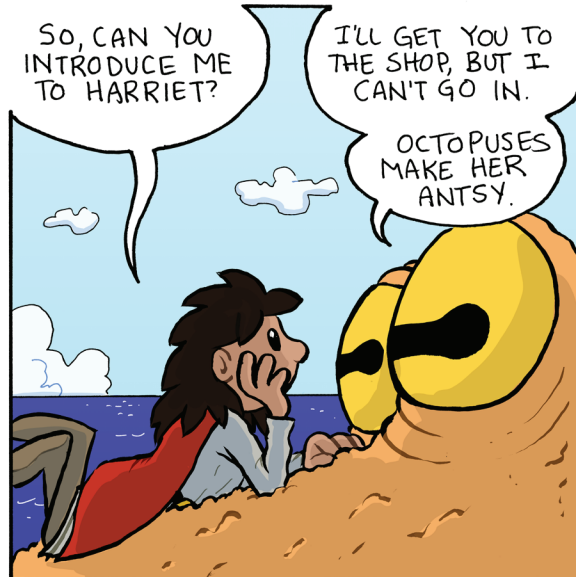
NO, SHE'S AN ARTIST, SO SHE KNOWS A LOT ABOUT DIMENSIONS AND SHAPES AND STUFF.

RIGHT NOW, SHE'S COMPLETELY FLAT AND LIVING IN A MATH MURAL SHE'S PAINTING IN TOWN.

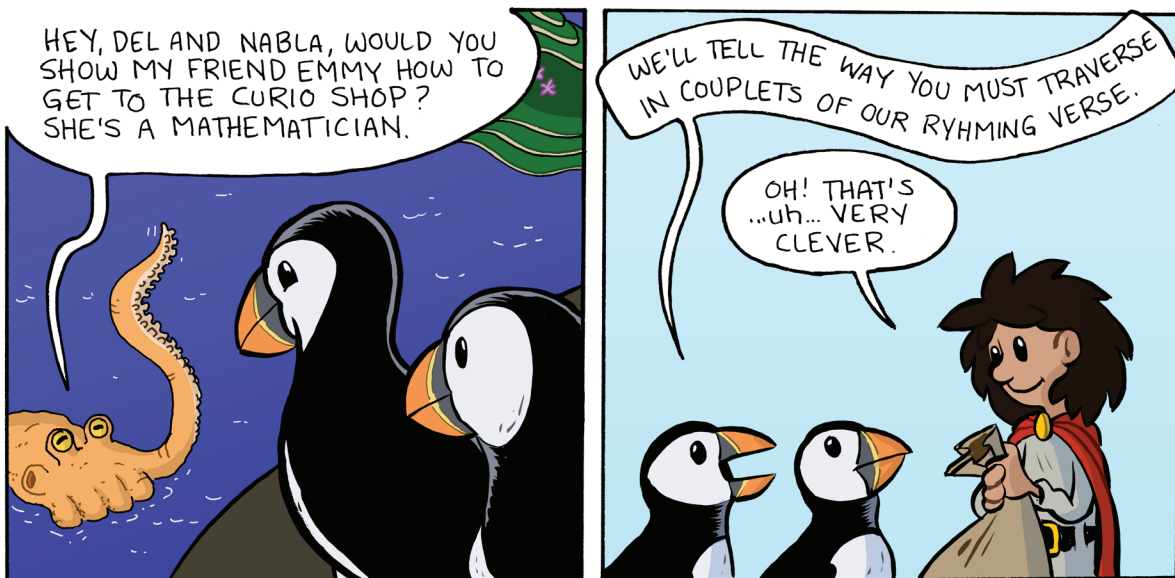
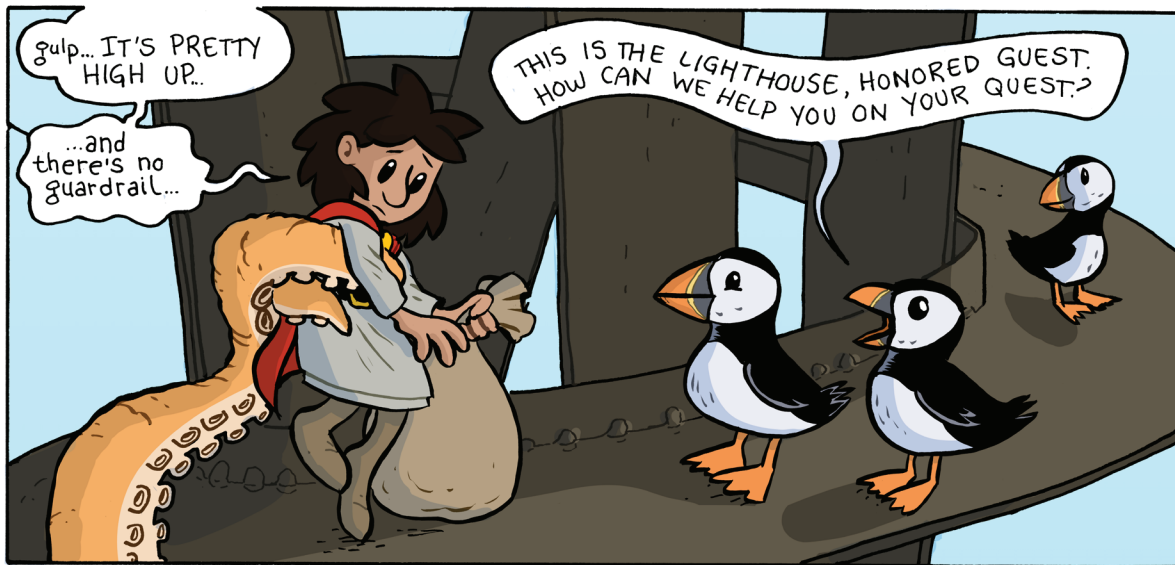
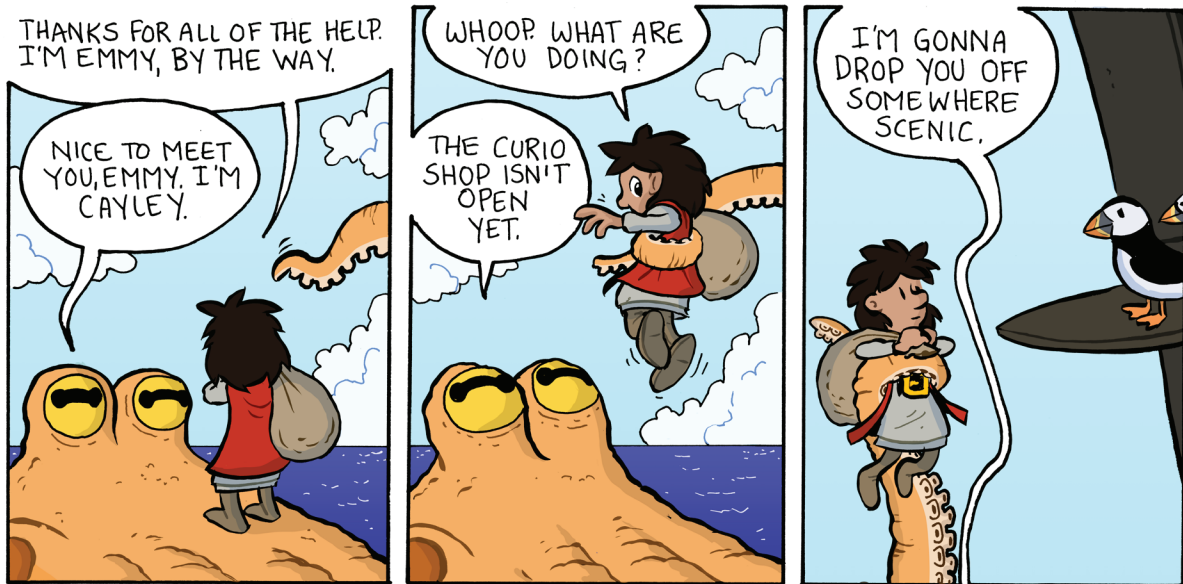


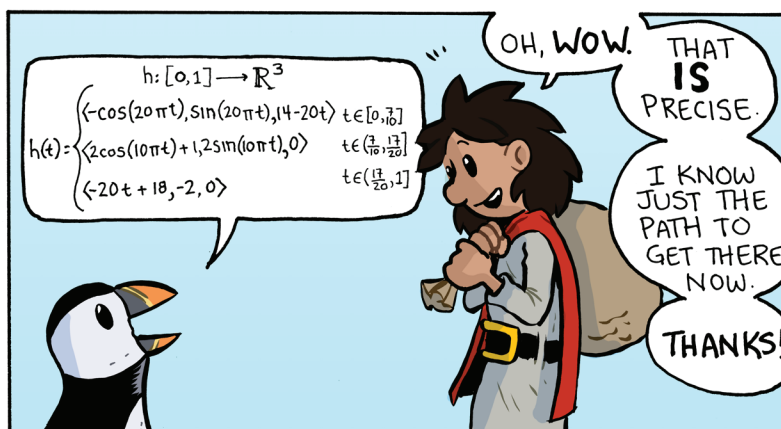
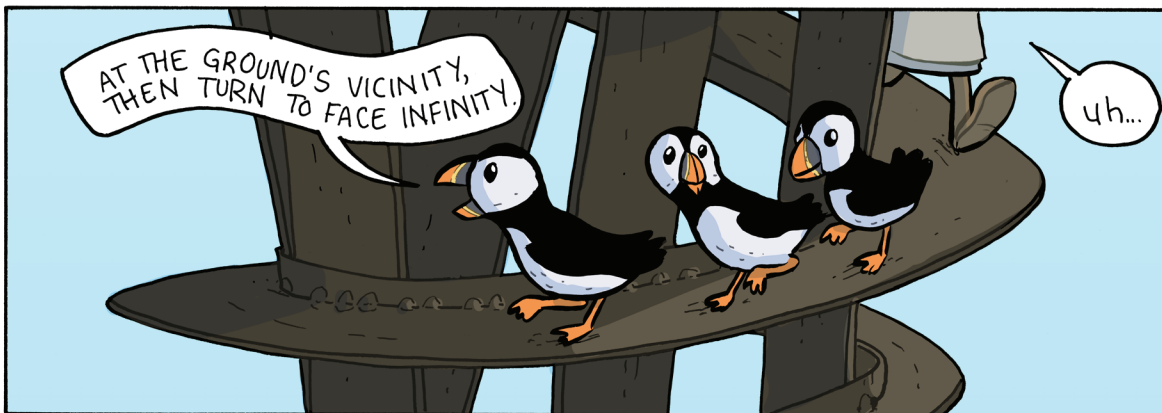










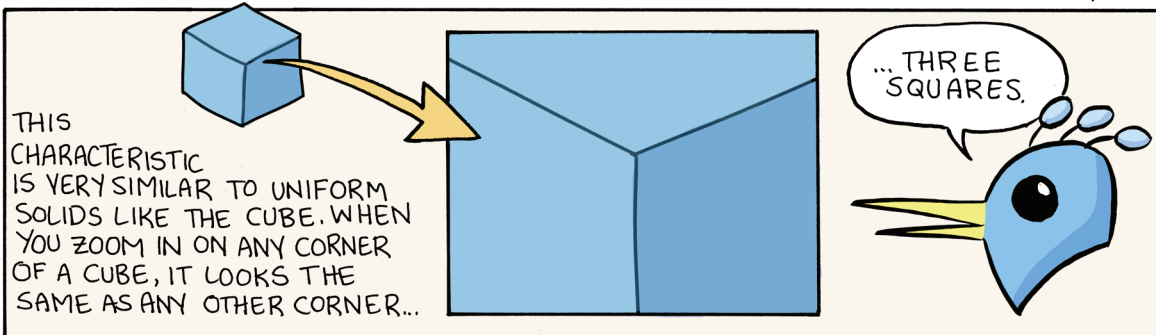
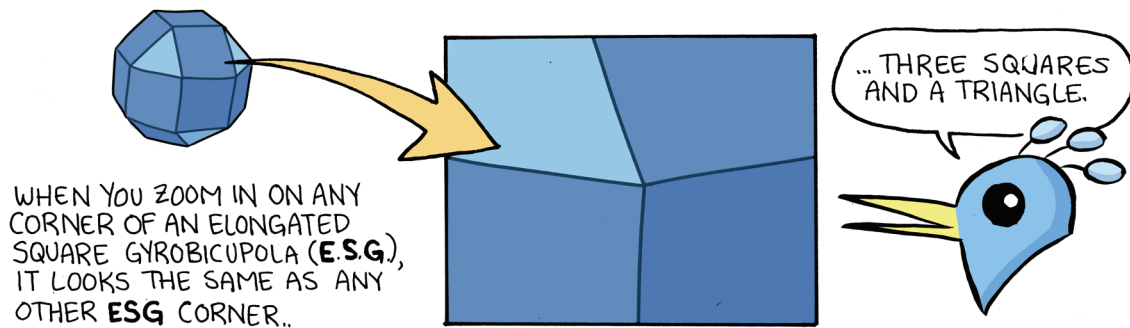


$$h: [0, 1] \rightarrow \mathbb{R}^3$$

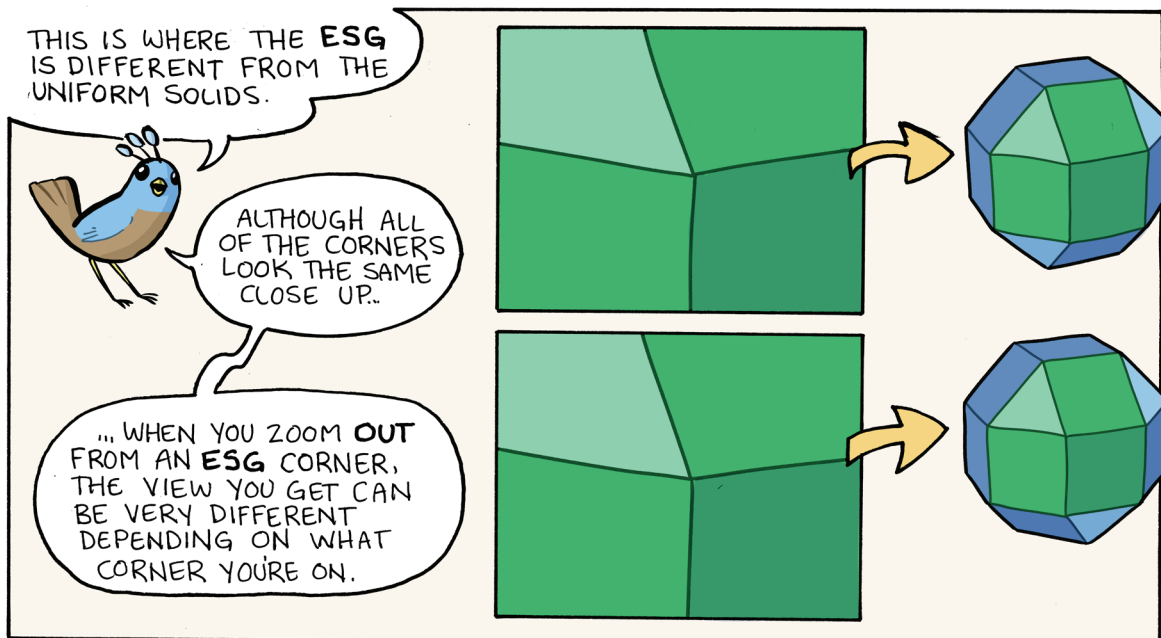
$$h(t) = \begin{cases} \langle -\cos(20\pi t), \sin(20\pi t), 14 - 20t \rangle & t \in [0, \frac{7}{10}] \\ \langle 2\cos(10\pi t) + 1, 2\sin(10\pi t), 0 \rangle & t \in (\frac{7}{10}, \frac{13}{20}] \\ \langle -20t + 18, -2, 0 \rangle & t \in (\frac{13}{20}, 1] \end{cases}$$

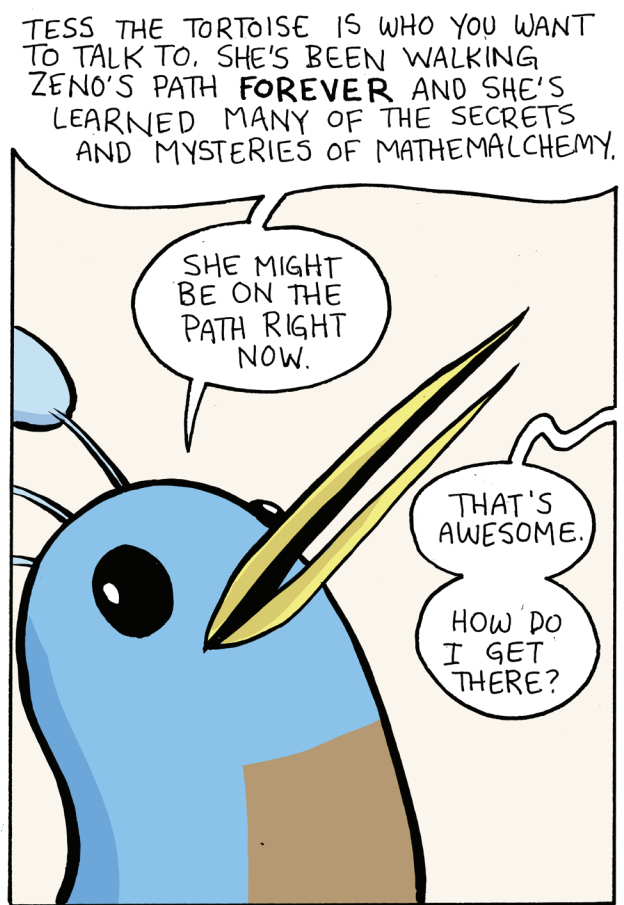


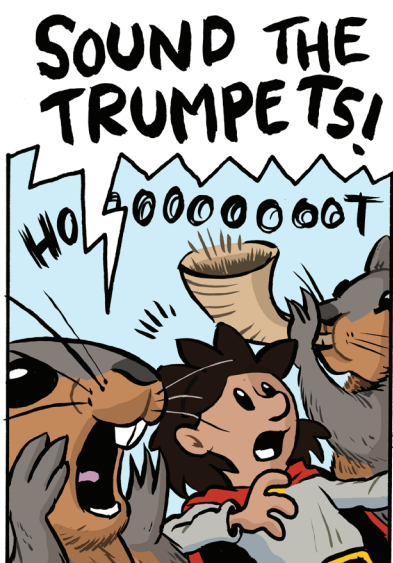


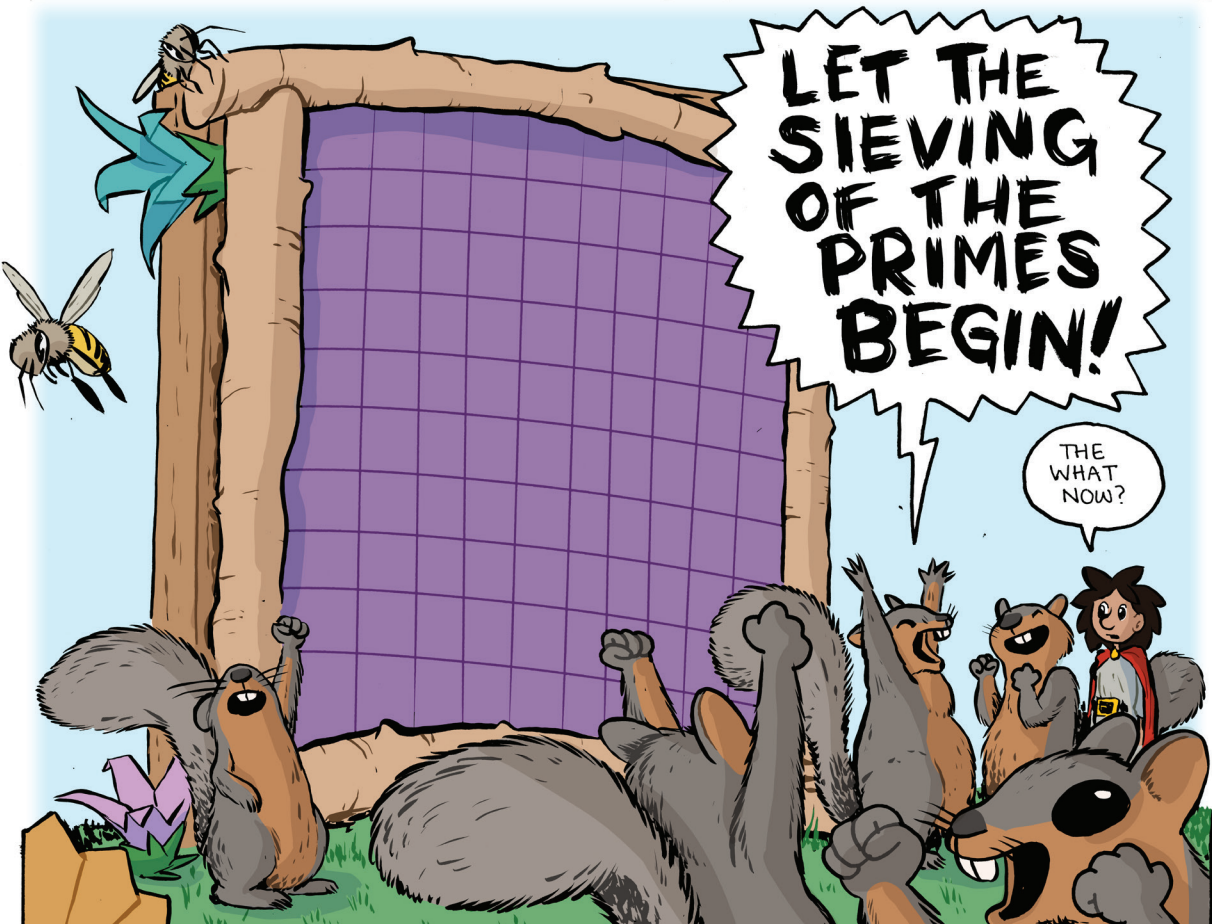


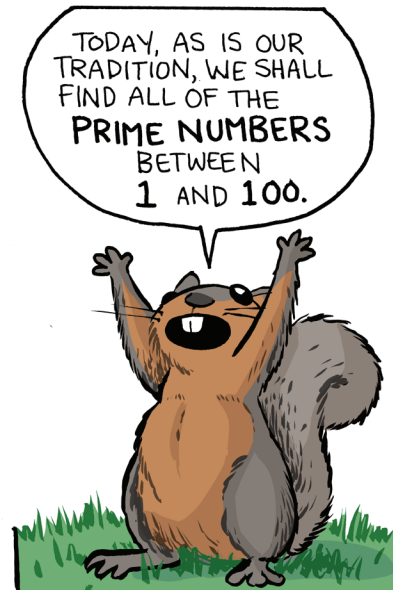
BUT WHEN YOU ZOOM **OUT** FROM THE CORNER OF A CUBE, YOU ALWAYS GET THE SAME VIEW, NO MATTER WHAT CORNER YOU'RE ON.

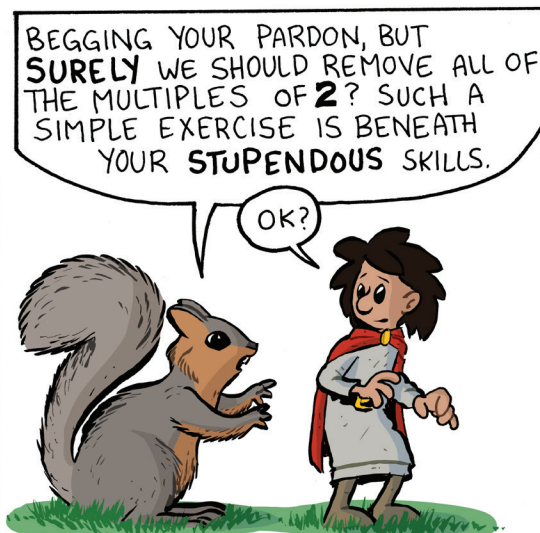




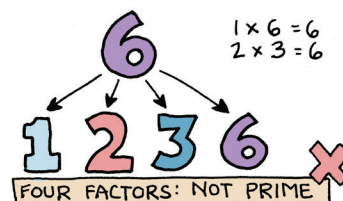
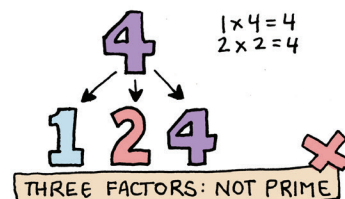
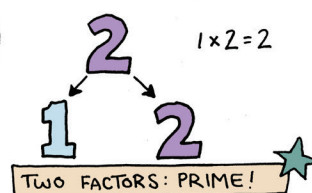






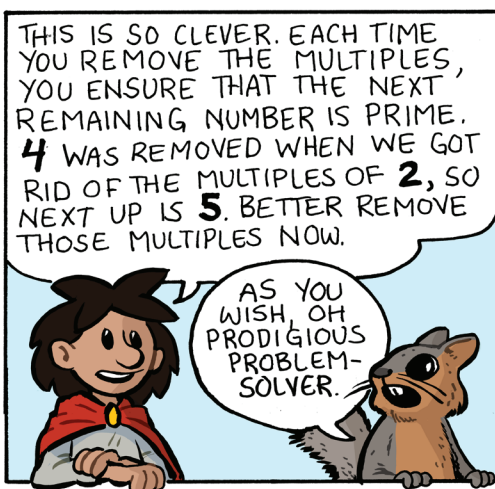


	2	3	5	7	9
11		13	15	17	19
21		23	25	27	29
31		33	35	37	39
41		43	45	47	49
51		53	55	57	59
61		63	65	67	69
71		73	75	77	79
81		83	85	87	89
91		93	95	97	99





	2	3	5	7	
11		13		17	19
		23	25		29
31			35	37	
41	43			47	49
	53	55			59
61		65	67		
71	73			77	79
	83	85			89
91		95	97		



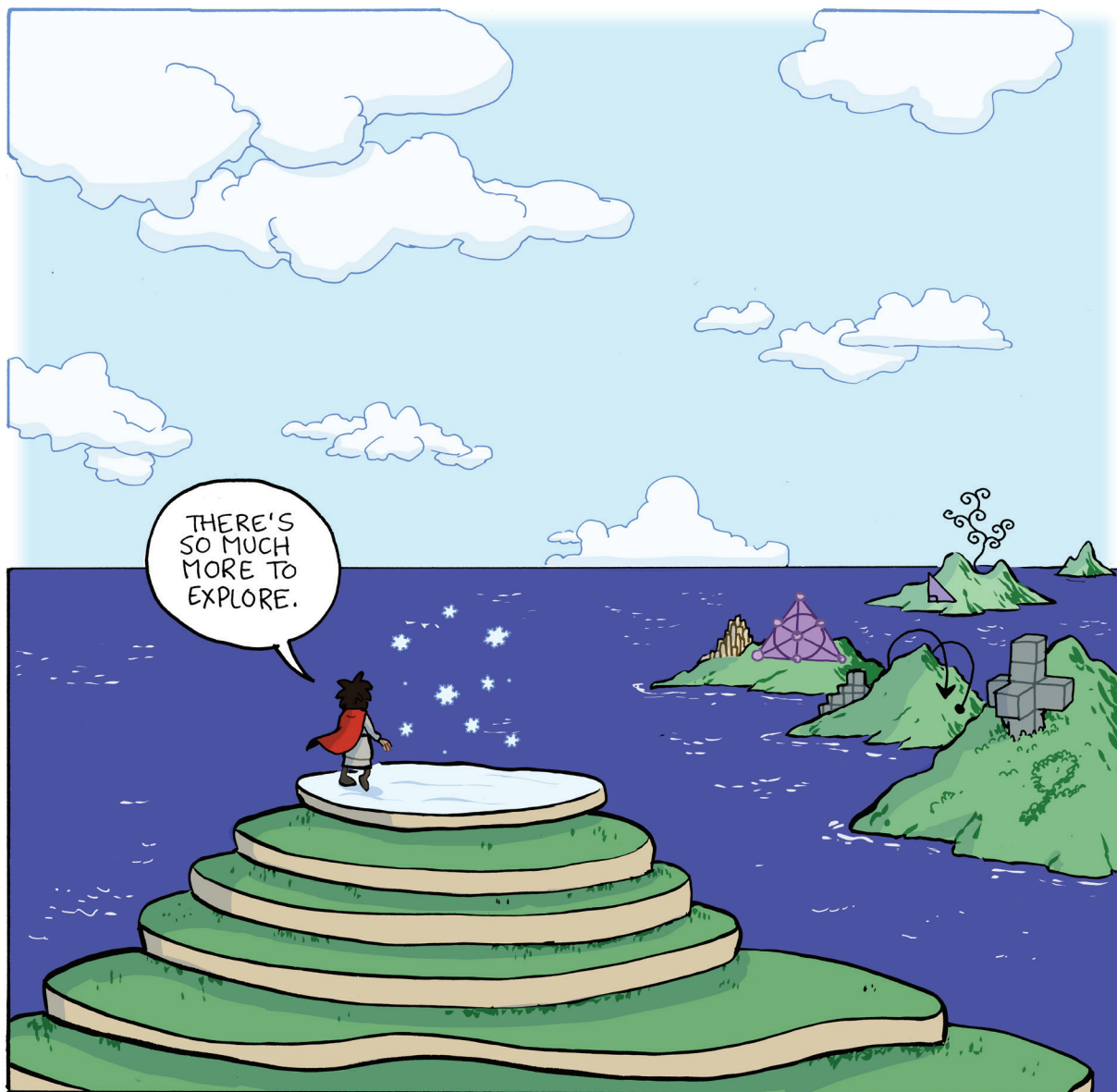
	2	3	5	7	
11		13		17	19
		23			29
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41	43			47	49
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71	73			77	79
	83				89
91				97	

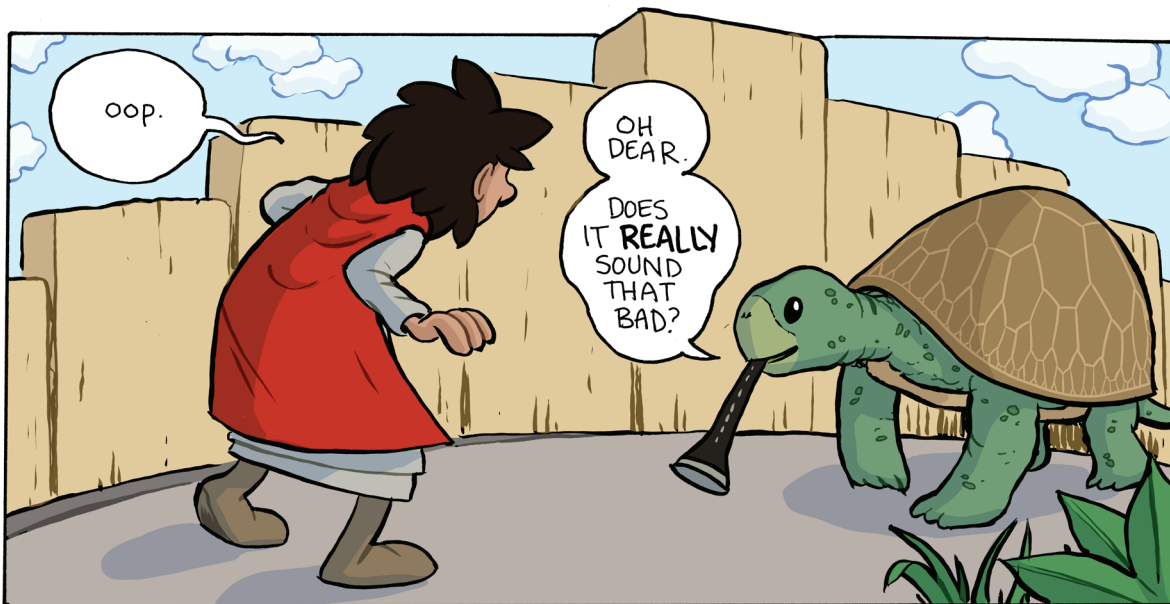


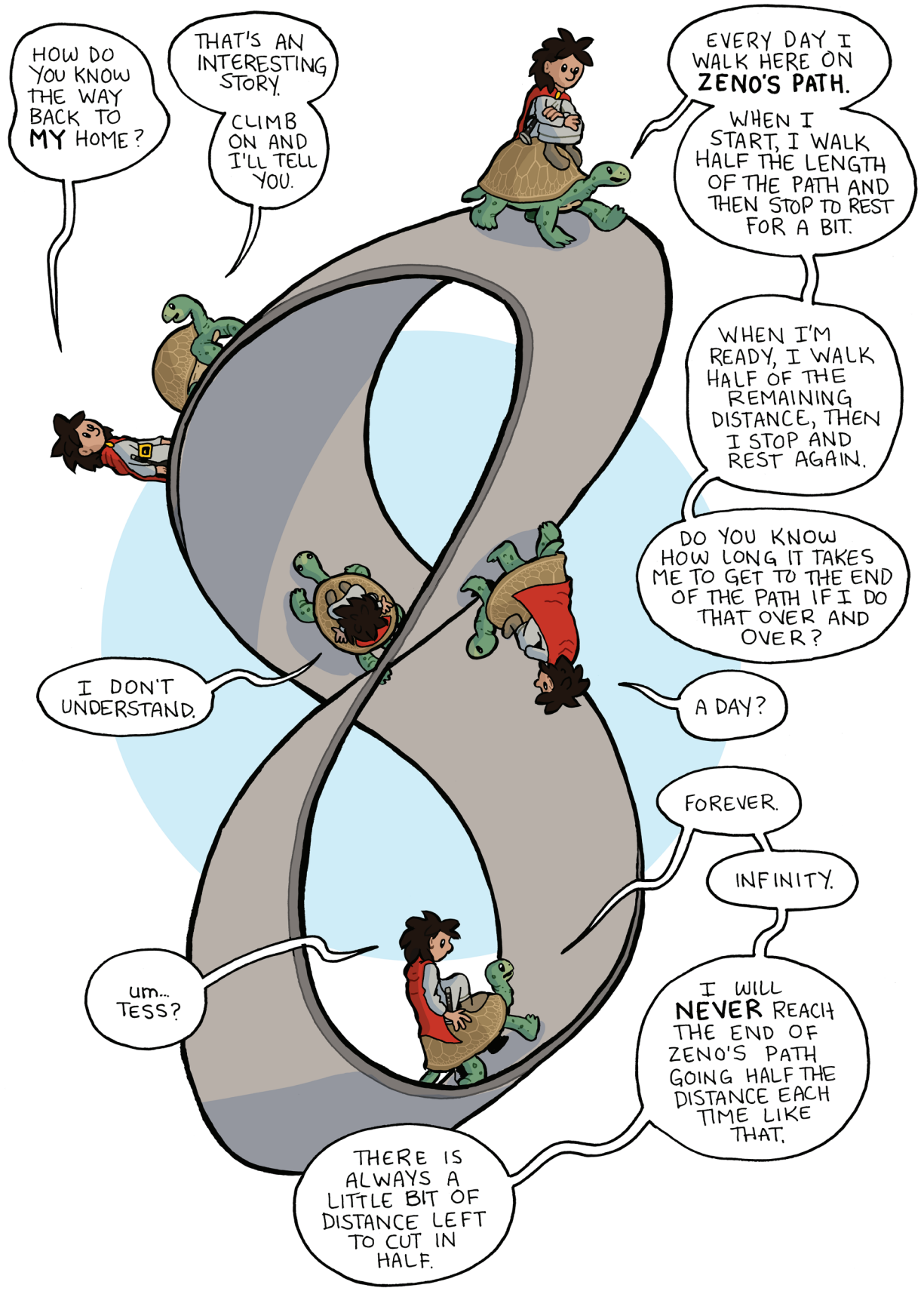
Toot











HOW DO YOU KNOW THE WAY BACK TO MY HOME?

THAT'S AN INTERESTING STORY.

CLIMB ON AND I'LL TELL YOU.

EVERY DAY I WALK HERE ON **ZENO'S PATH**.

WHEN I START, I WALK HALF THE LENGTH OF THE PATH AND THEN STOP TO REST FOR A BIT.

WHEN I'M READY, I WALK HALF OF THE REMAINING DISTANCE, THEN I STOP AND REST AGAIN.

DO YOU KNOW HOW LONG IT TAKES ME TO GET TO THE END OF THE PATH IF I DO THAT OVER AND OVER?

I DON'T UNDERSTAND.

A DAY?

FOREVER.

INFINITY.

I WILL **NEVER** REACH THE END OF ZENO'S PATH GOING HALF THE DISTANCE EACH TIME LIKE THAT.

um... TESS?

THERE IS ALWAYS A LITTLE BIT OF DISTANCE LEFT TO CUT IN HALF.

