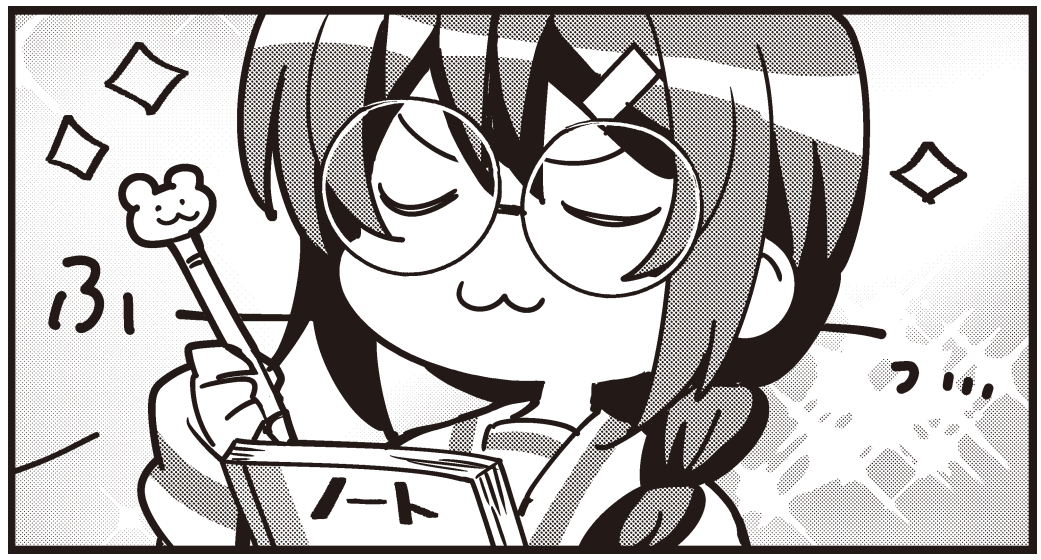
ORIKOU! RIKO-CHAN



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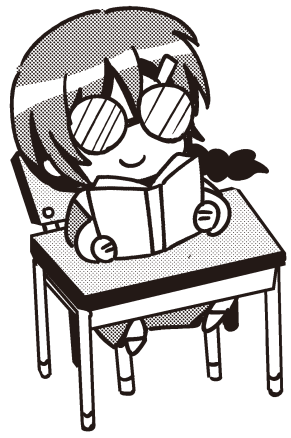
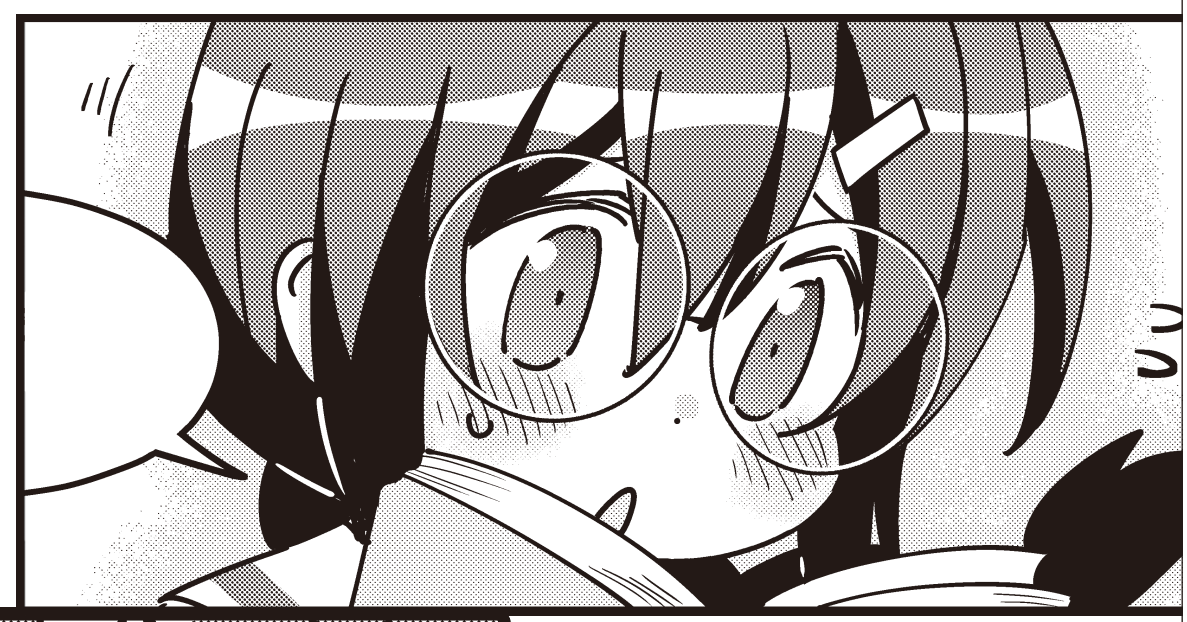
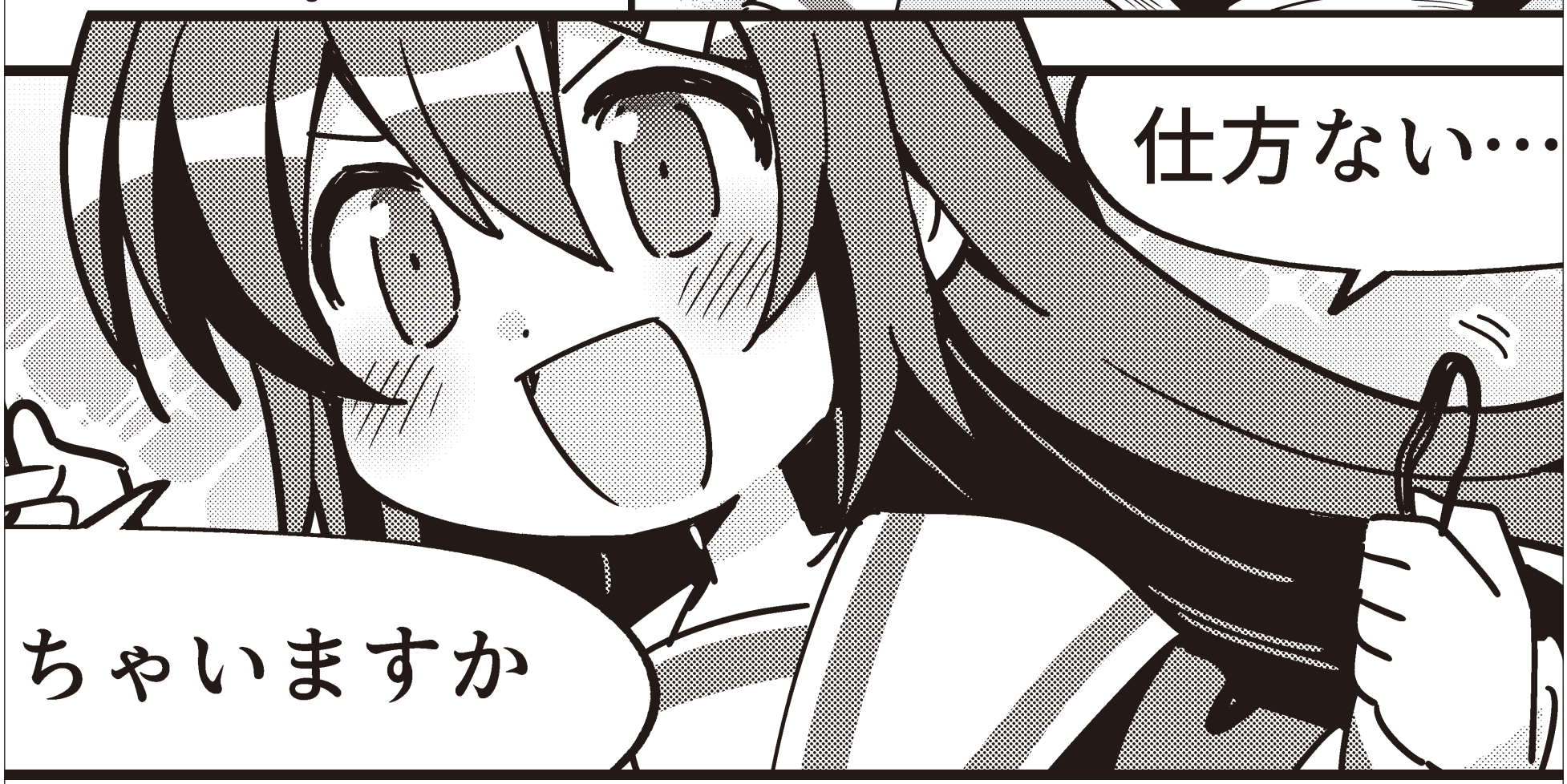
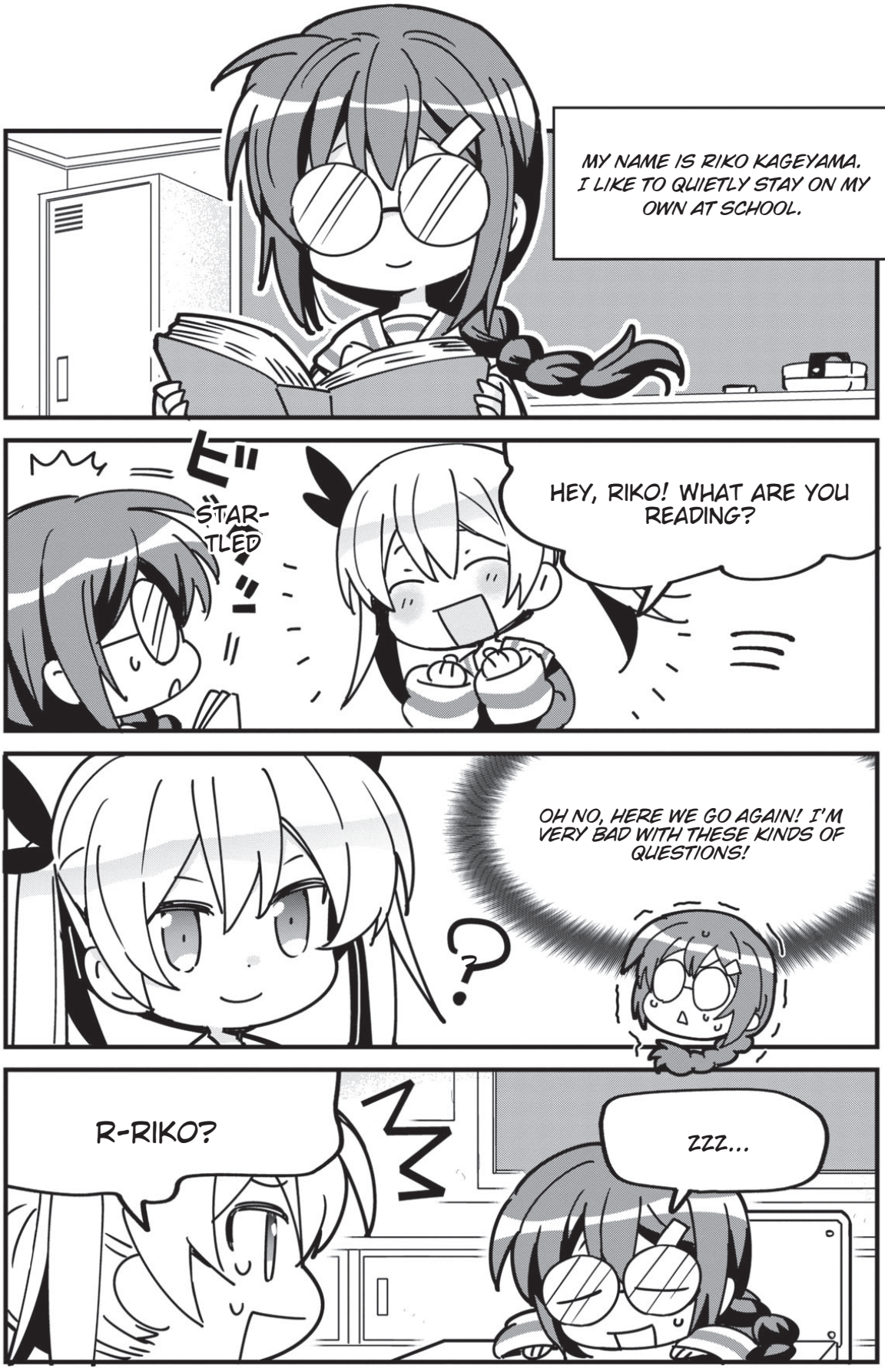
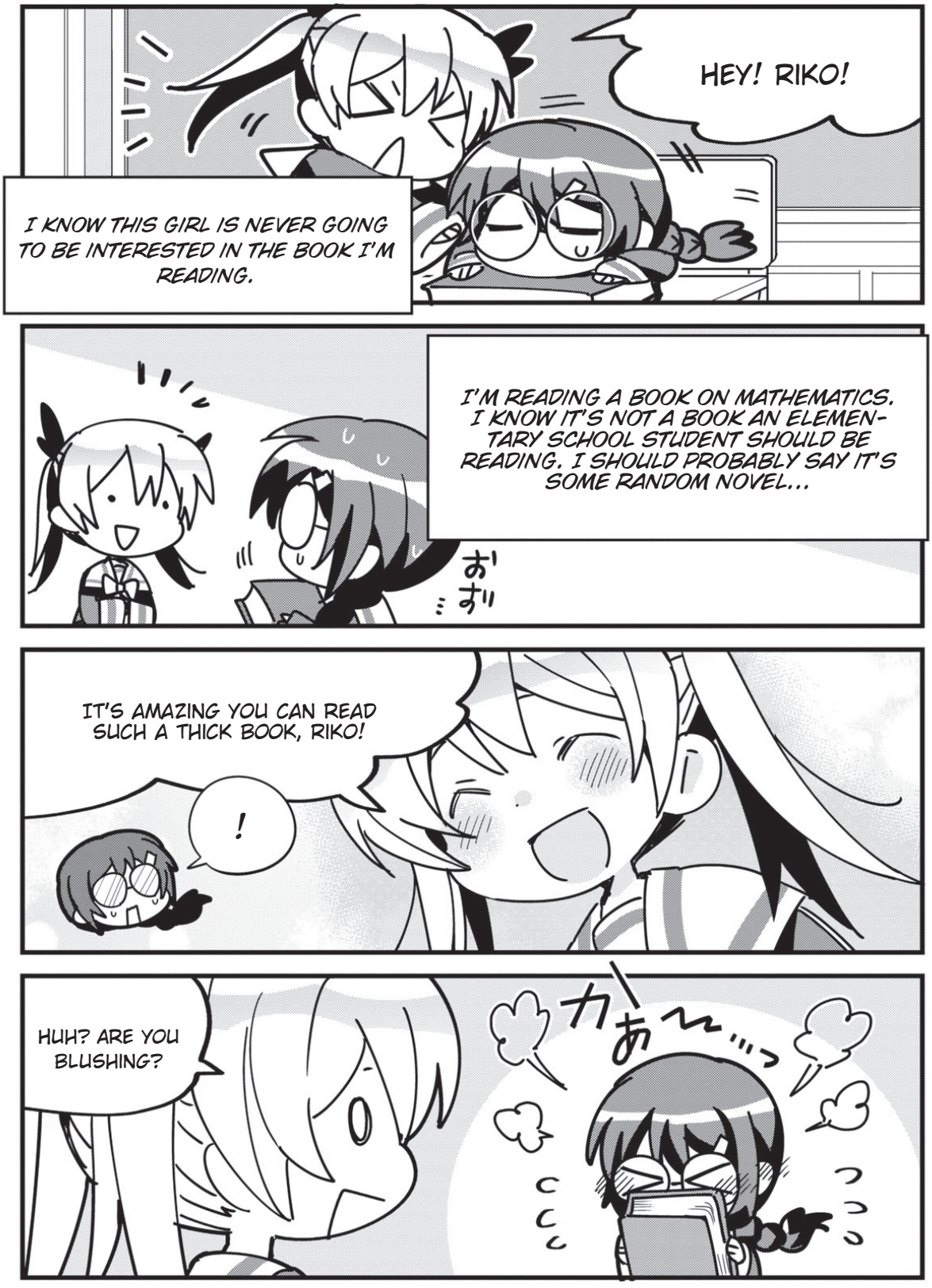
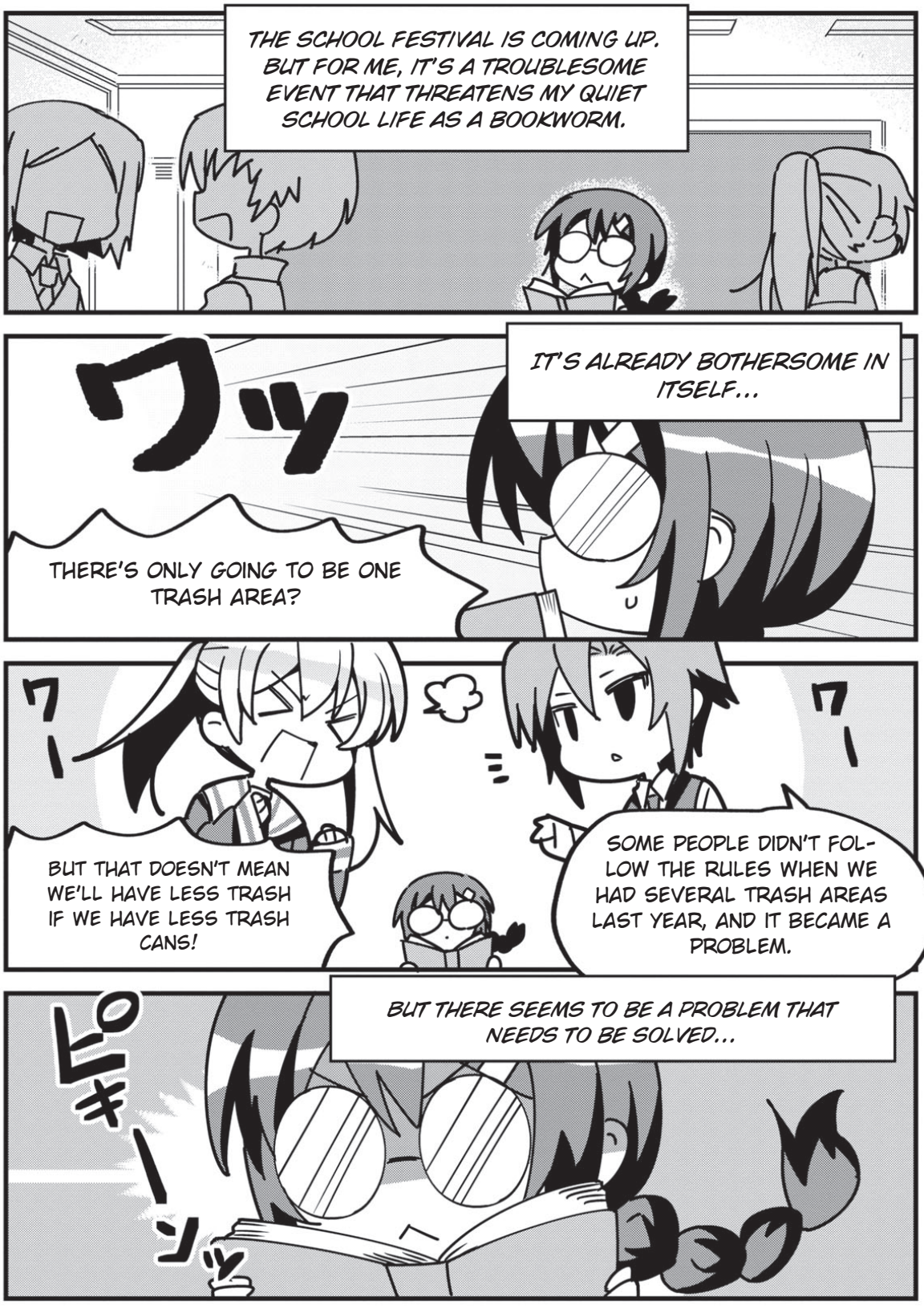


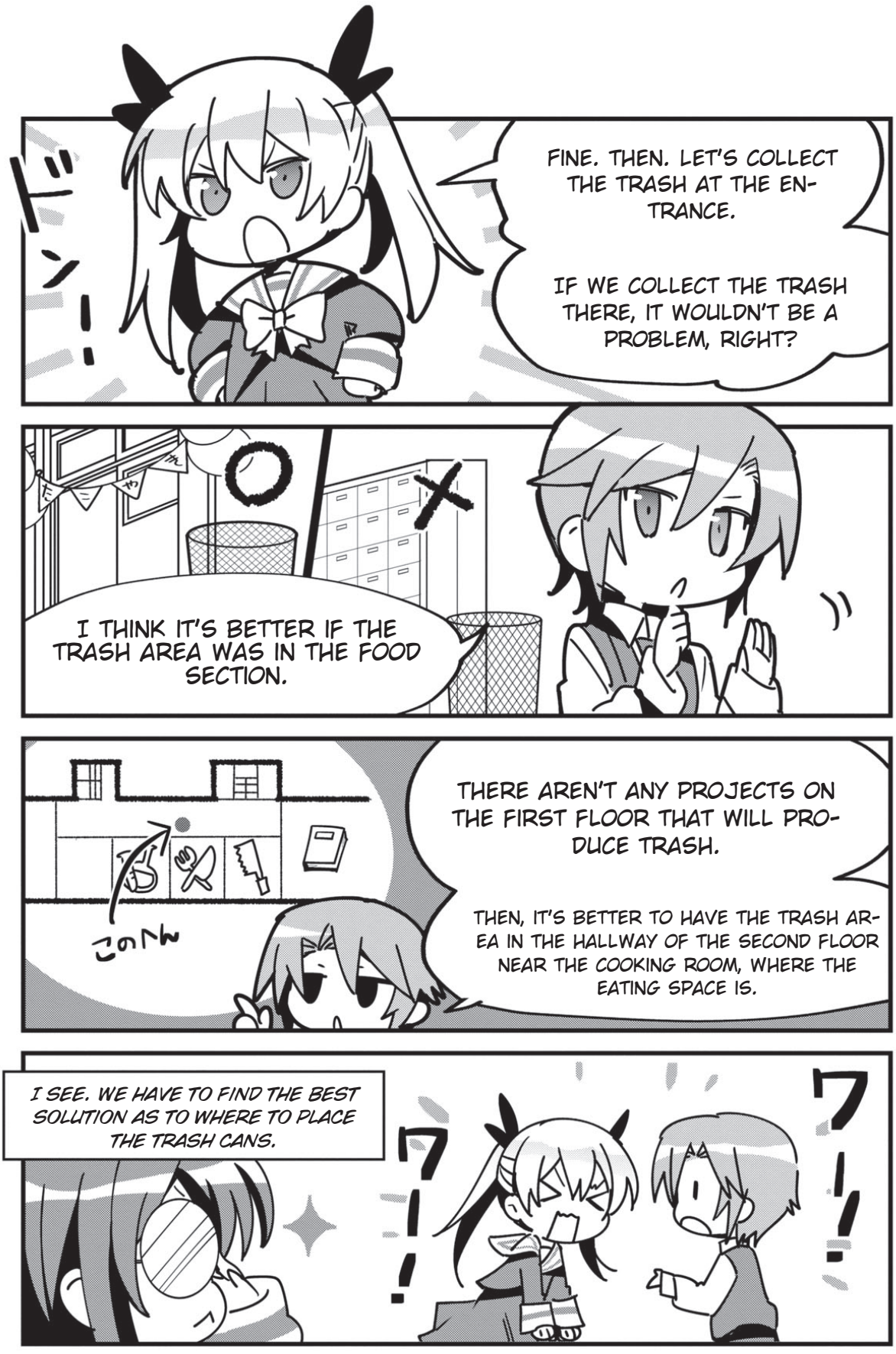


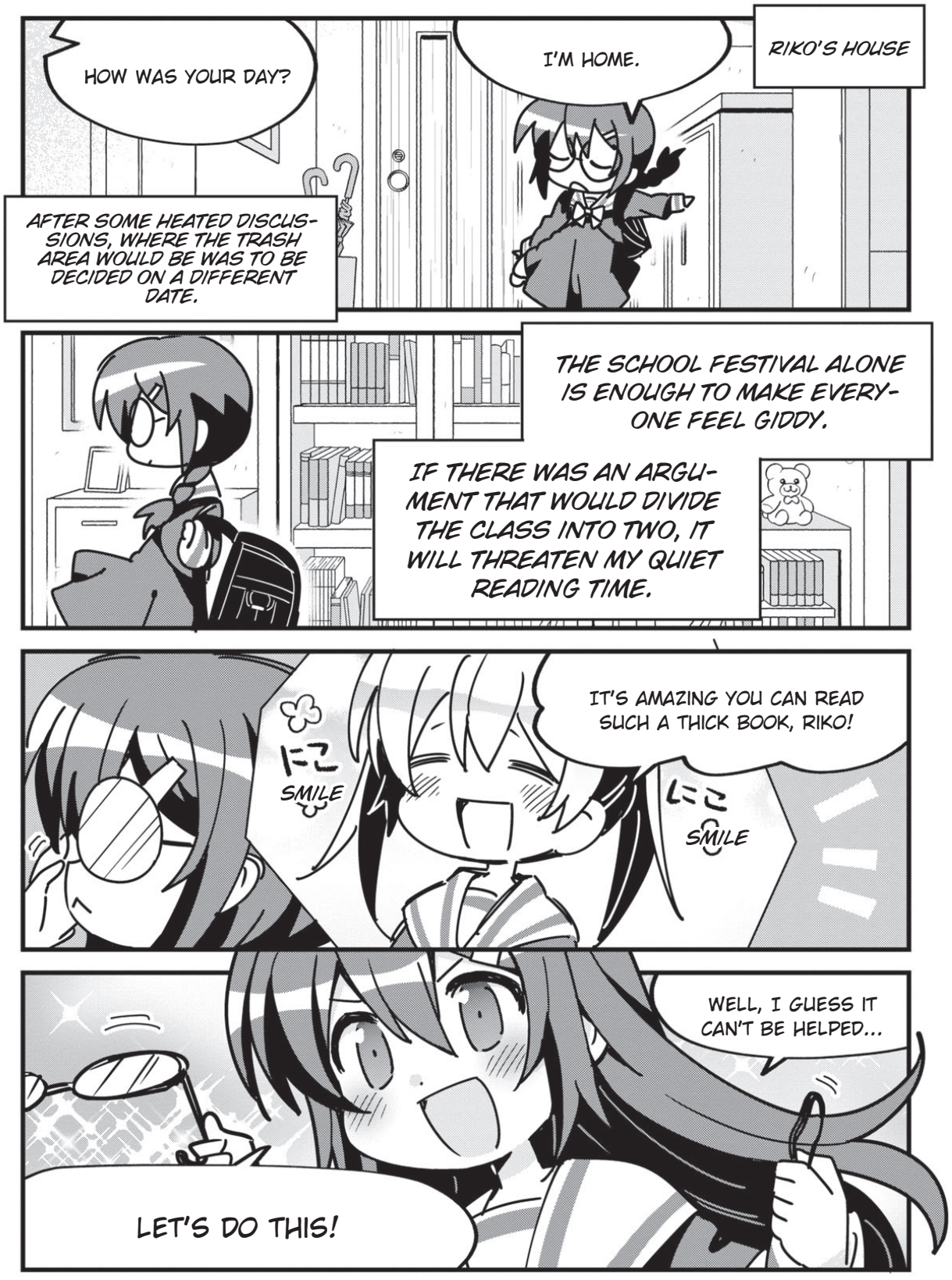


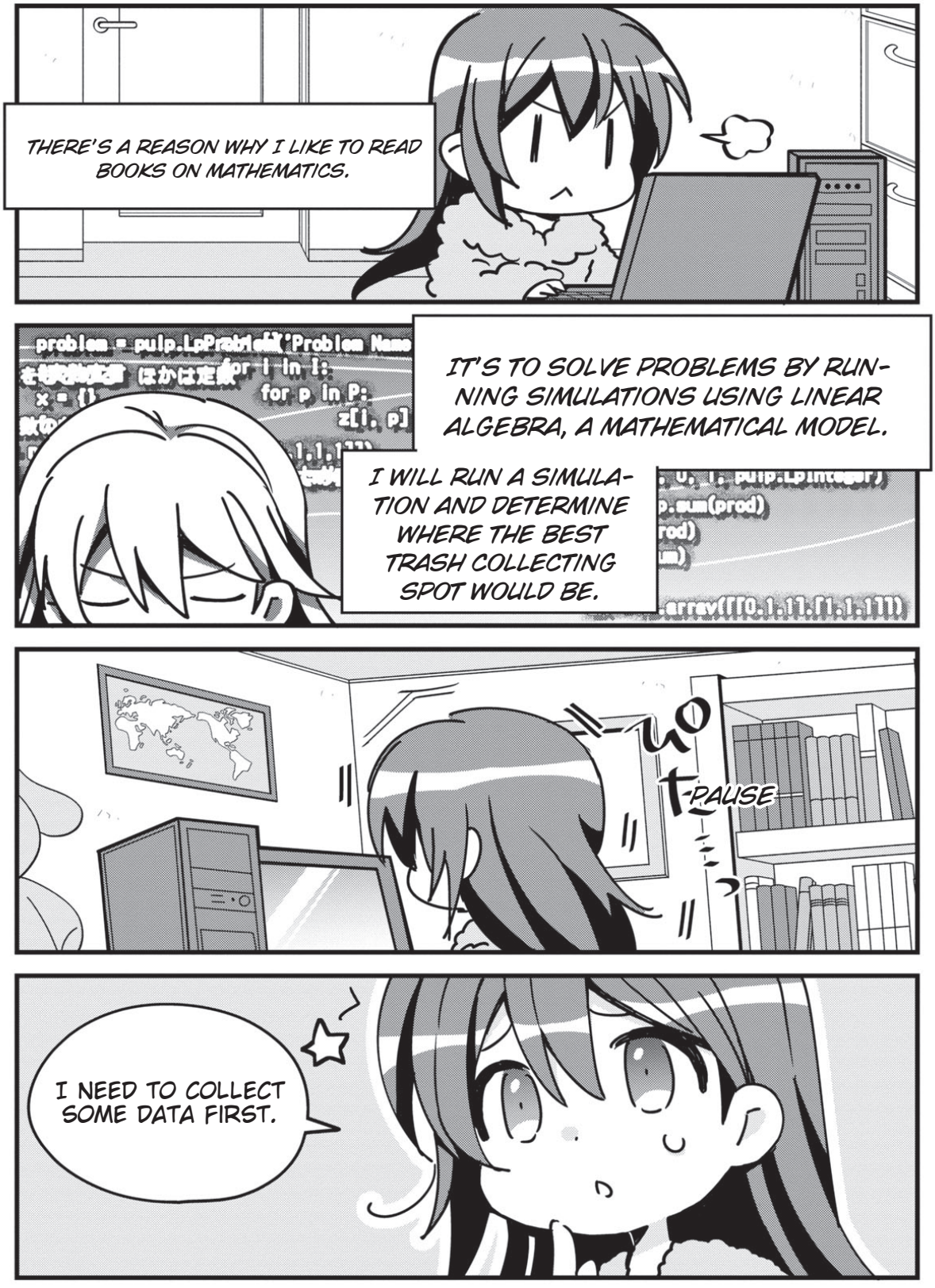

MY NAME IS RIKO KAGEYAMA. I LIKE TO QUIETLY STAY ON MY OWN AT SCHOOL.
STAR-TLED
HEY, RIKO! WHAT ARE YOU READING?
OH NO, HERE WE GO AGAIN! I'M VERY BAD WITH THESE KINDS OF QUESTIONS!
?
R-RIKO?
ZZZ...

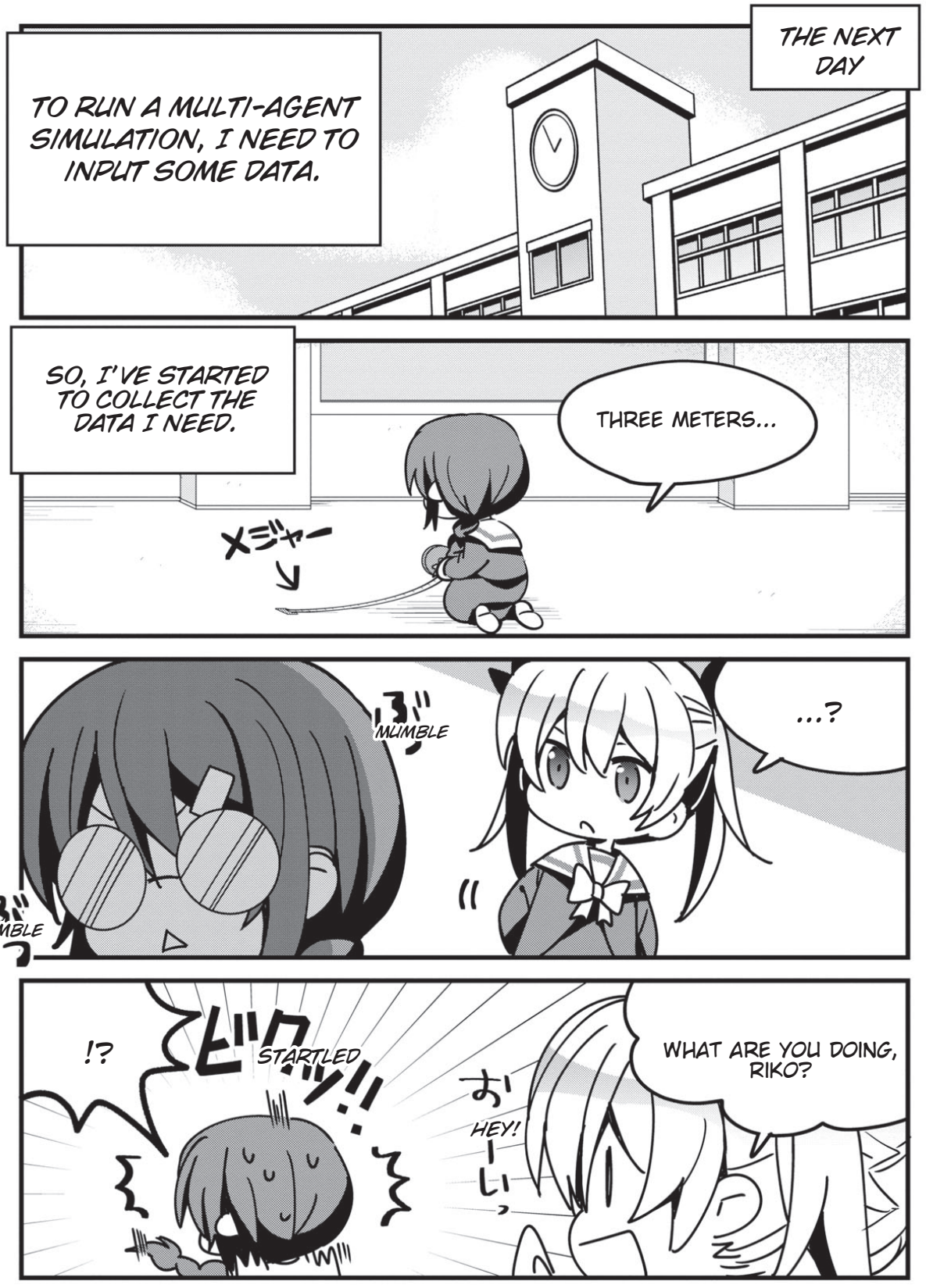

HEY! RIKO!
I KNOW THIS GIRL IS NEVER GOING TO BE INTERESTED IN THE BOOK I'M READING.
I'M READING A BOOK ON MATHEMATICS. I KNOW IT'S NOT A BOOK AN ELEMENTARY SCHOOL STUDENT SHOULD BE READING. I SHOULD PROBABLY SAY IT'S SOME RANDOM NOVEL...
おず
IT'S AMAZING YOU CAN READ SUCH A THICK BOOK, RIKO!
!
HUH? ARE YOU BLUSHING?
カあ～

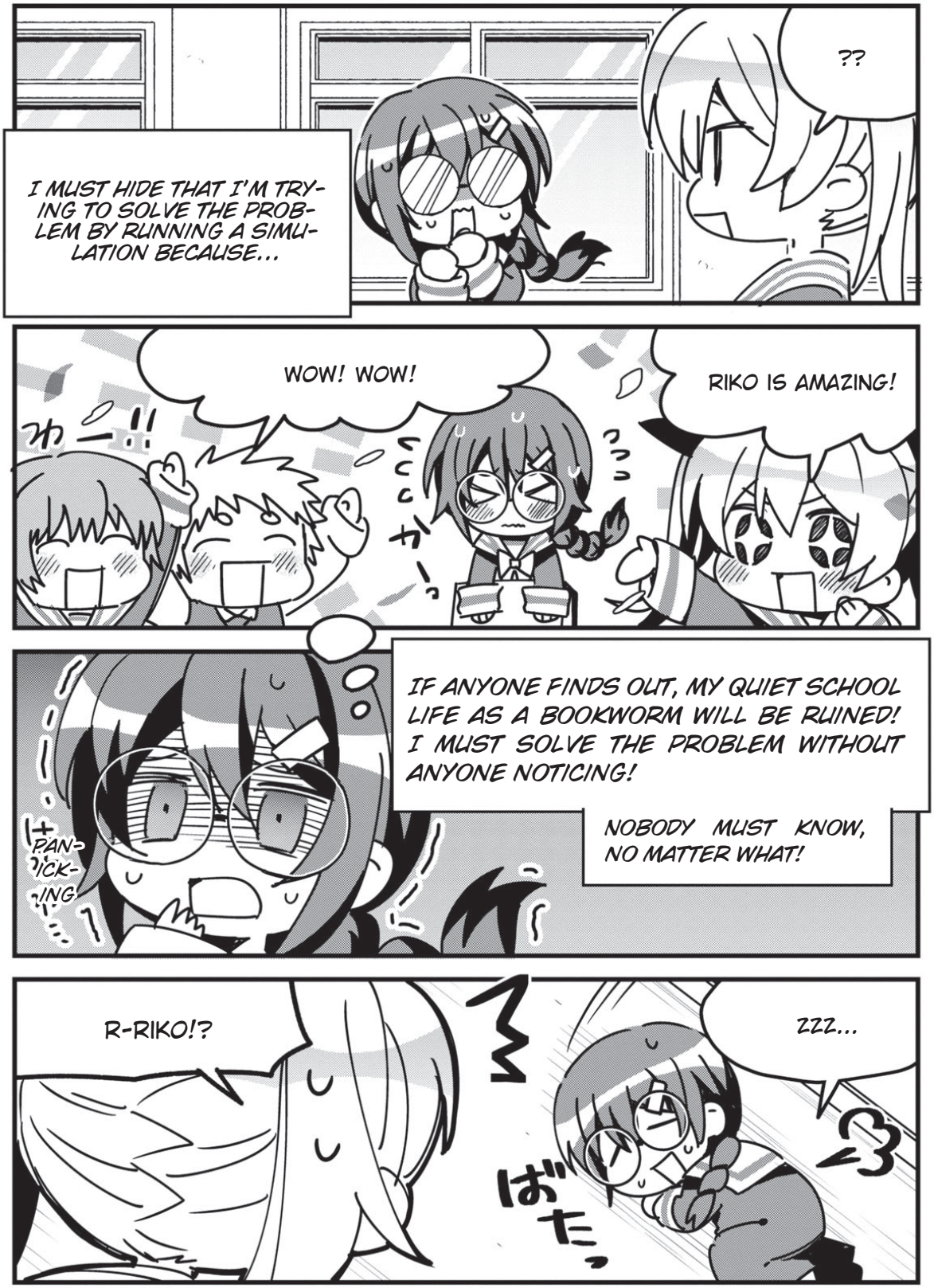

THE SCHOOL FESTIVAL IS COMING UP. BUT FOR ME, IT'S A TROUBLESOME EVENT THAT THREATENS MY QUIET SCHOOL LIFE AS A BOOKWORM.
ワッ
IT'S ALREADY BOTHERSOME IN ITSELF...
THERE'S ONLY GOING TO BE ONE TRASH AREA?
ワー
ワー
BUT THAT DOESN'T MEAN WE'LL HAVE LESS TRASH IF WE HAVE LESS TRASH CANS!
SOME PEOPLE DIDN'T FOLLOW THE RULES WHEN WE HAD SEVERAL TRASH AREAS LAST YEAR, AND IT BECAME A PROBLEM.
BUT THERE SEEMS TO BE A PROBLEM THAT NEEDS TO BE SOLVED...
ピキーン

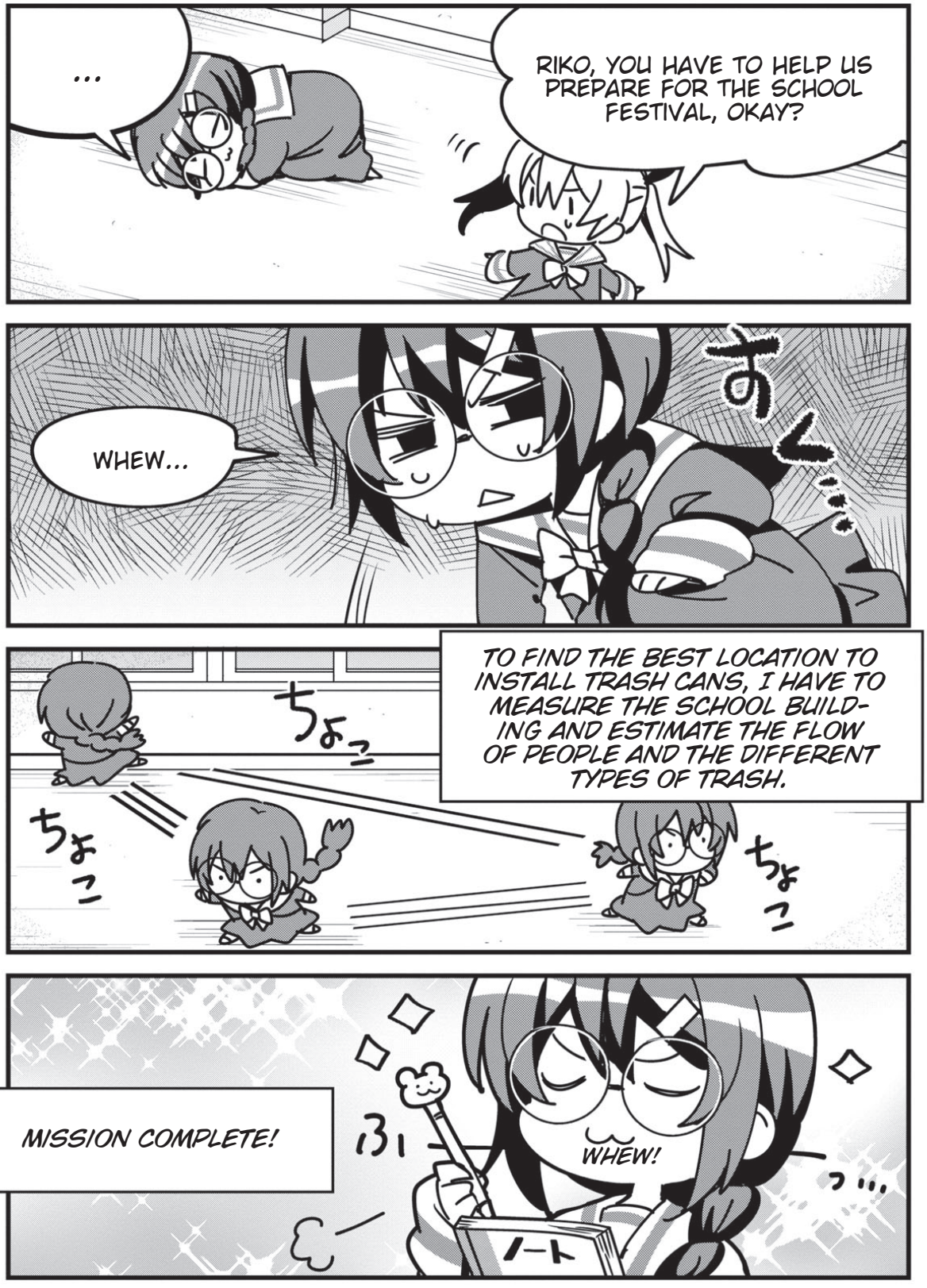

ドン！
FINE. THEN. LET'S COLLECT THE TRASH AT THE ENTRANCE.
IF WE COLLECT THE TRASH THERE, IT WOULDN'T BE A PROBLEM, RIGHT?
O
X
I THINK IT'S BETTER IF THE TRASH AREA WAS IN THE FOOD SECTION.
このへん
THERE AREN'T ANY PROJECTS ON THE FIRST FLOOR THAT WILL PRODUCE TRASH.
THEN, IT'S BETTER TO HAVE THE TRASH AREA IN THE HALLWAY OF THE SECOND FLOOR NEAR THE COOKING ROOM, WHERE THE EATING SPACE IS.
I SEE. WE HAVE TO FIND THE BEST SOLUTION AS TO WHERE TO PLACE THE TRASH CANS.
ワ！！
ワ！！

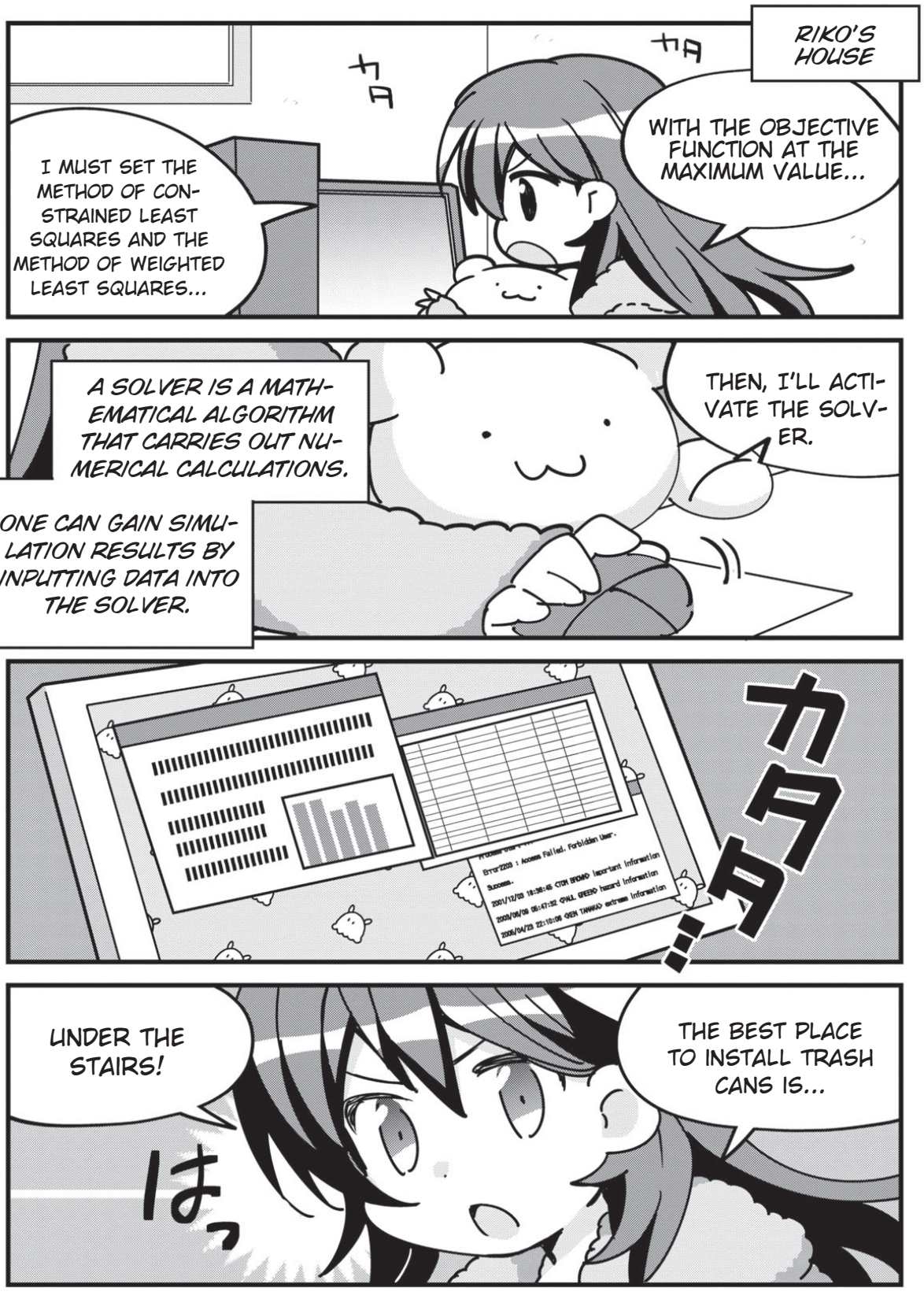

RIKO'S HOUSE
I'M HOME.
HOW WAS YOUR DAY?
AFTER SOME HEATED DISCUSSIONS, WHERE THE TRASH AREA WOULD BE WAS TO BE DECIDED ON A DIFFERENT DATE.
THE SCHOOL FESTIVAL ALONE IS ENOUGH TO MAKE EVERYONE FEEL GIDDY.
IF THERE WAS AN ARGUMENT THAT WOULD DIVIDE THE CLASS INTO TWO, IT WILL THREATEN MY QUIET READING TIME.
IT'S AMAZING YOU CAN READ SUCH A THICK BOOK, RIKO!
にこ SMILE
にこ SMILE
WELL, I GUESS IT CAN'T BE HELPED...
LET'S DO THIS!


THERE'S A REASON WHY I LIKE TO READ BOOKS ON MATHEMATICS.
IT'S TO SOLVE PROBLEMS BY RUNNING SIMULATIONS USING LINEAR ALGEBRA, A MATHEMATICAL MODEL.
I WILL RUN A SIMULATION AND DETERMINE WHERE THE BEST TRASH COLLECTING SPOT WOULD BE.
PAUSE
I NEED TO COLLECT SOME DATA FIRST.


THE NEXT DAY
TO RUN A MULTI-AGENT SIMULATION, I NEED TO INPUT SOME DATA.
SO, I'VE STARTED TO COLLECT THE DATA I NEED.
THREE METERS...
メジャー
MUMBLE
MUMBLE
...?
!?
ビクッ!!
STARTLED
おーい
HEY!
WHAT ARE YOU DOING, RIKO?


??
I MUST HIDE THAT I'M TRYING TO SOLVE THE PROBLEM BY RUNNING A SIMULATION BECAUSE...
WOW! WOW!
RIKO IS AMAZING!
IF ANYONE FINDS OUT, MY QUIET SCHOOL LIFE AS A BOOKWORM WILL BE RUINED! I MUST SOLVE THE PROBLEM WITHOUT ANYONE NOTICING!
NOBODY MUST KNOW, NO MATTER WHAT!
PANICKING
R-RIKO!?
ZZZ...


...
RIKO, YOU HAVE TO HELP US PREPARE FOR THE SCHOOL FESTIVAL, OKAY?
WHEW...
あ～...
TO FIND THE BEST LOCATION TO INSTALL TRASH CANS, I HAVE TO MEASURE THE SCHOOL BUILDING AND ESTIMATE THE FLOW OF PEOPLE AND THE DIFFERENT TYPES OF TRASH.
ちょこ
ちょこ
ちょこ
MISSION COMPLETE!
WHEW!
ノート

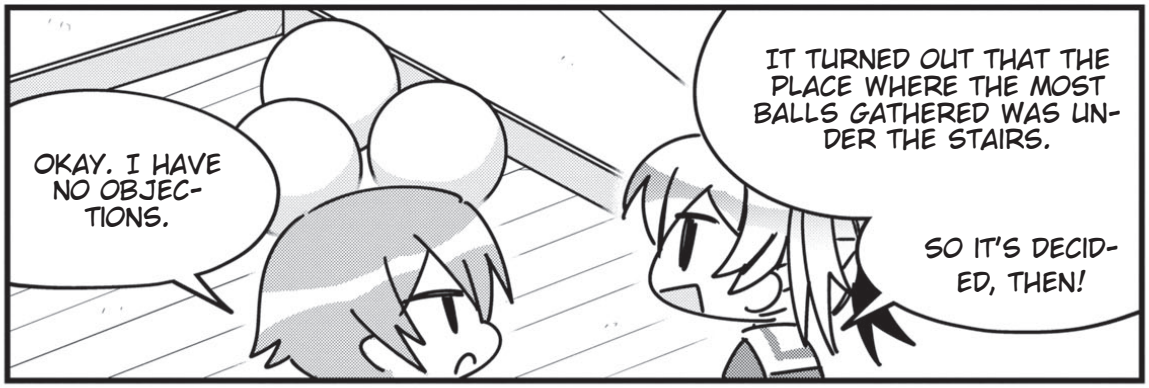

RIKO'S HOUSE
WITH THE OBJECTIVE FUNCTION AT THE MAXIMUM VALUE...
I MUST SET THE METHOD OF CONSTRAINED LEAST SQUARES AND THE METHOD OF WEIGHTED LEAST SQUARES...
カタ
カタ
THEN, I'LL ACTIVATE THE SOLVER.
A SOLVER IS A MATHEMATICAL ALGORITHM THAT CARRIES OUT NUMERICAL CALCULATIONS.
ONE CAN GAIN SIMULATION RESULTS BY INPUTTING DATA INTO THE SOLVER.
カタタ…
UNDER THE STAIRS!
はっ
THE BEST PLACE TO INSTALL TRASH CANS IS...

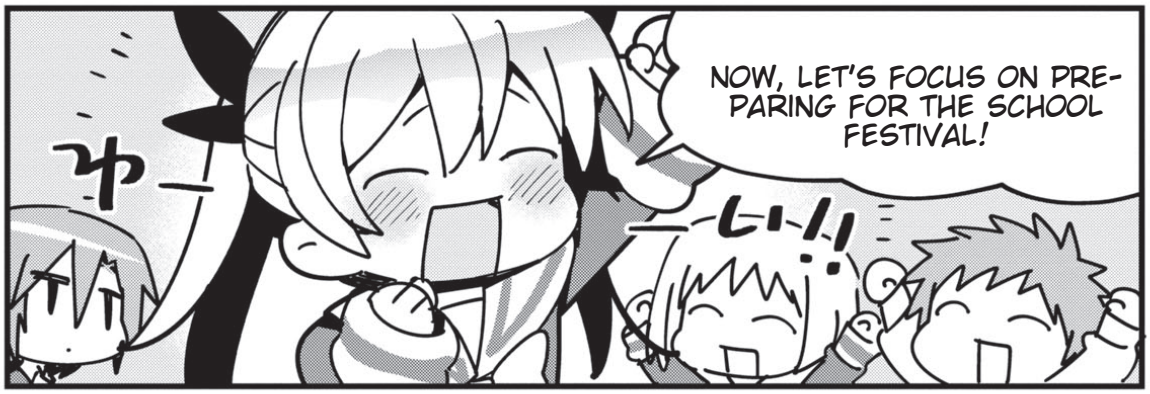
NOW, THE PROBLEM IS HOW I'M GOING TO TELL EVERYONE ABOUT THE RESULTS...
...
EVEN IF I WERE TO EXPLAIN THE SIMULATION RESULTS,
THERE'S NO WAY ELEMENTARY SCHOOL STUDENTS WILL UNDERSTAND.
BUT MAYBE KAZUHIKO MIGHT UNDERSTAND...
I SEE, YOU'VE GOT A POINT. LET'S PUT THE TRASH CANS UNDER THE STAIRS.
BUT I'M CERTAIN SHE WILL BE AGAINST IT...!
IF YOU'RE GOING TO PUT THEM UNDER THE STAIRS, THEN IT'S NOT MUCH DIFFERENT FROM THE ENTRANCE!
ワーッ

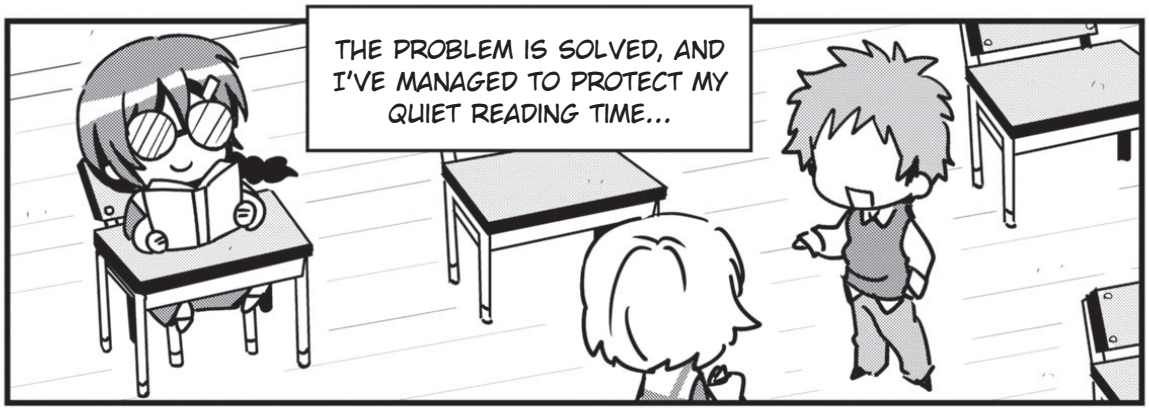
RIKO'S HOUSE
JUSTICE IS NOT ALWAYS ABOUT BEING RIGHT.
I MUSTN'T FORCE EVERYONE TO FOLLOW THE BEST SOLUTION.
HOW CAN I TELL THEM ABOUT THE BEST LOCATION TO COLLECT TRASH...
IN A WAY THAT BOTH OF THEM WILL UNDERSTAND AND BE HAPPY ABOUT?
HEY, RIKO! WHAT ARE YOU READING?

HERE SHE COMES!
HEY, RIKO! WHAT ARE YOU DOING?
?
ニヤリ
JUST AS I EXPECTED...
I WAS READING HANSEL AND GRETEL, ONE OF GRIMM'S FAIRY TALES. IT'S ABOUT HOW TWO CHILDREN DROP BREAD CRUMBS SO THEY WON'T GET LOST.
BUT THAT MEANS THEY WERE BASICALLY LITTERING THE FOREST. THAT'S NOT VERY GOOD, IS IT?
LITTERING... BREAD CRUMBS...
WE SHOULD TRY TESTING THE BEST PLACE FOR THE TRASH CANS LIKE HANSEL AND GRETEL!
THAT'S IT!
ぽんっ
JUST AS I EXPECT-ED...

LISTEN, EVERYONE! I WANT YOU TO PRETEND THIS BALL IS SOME TRASH.
I WANT YOU TO LEAVE IT WHERE YOU WANTED TO THROW IT AWAY.
THE IDEA IS THAT THE PLACE WITH THE MOST BALLS IS THE PLACE WHERE TRASH TENDS TO GATHER!
WHAT DO YOU THINK?
こくり。
HM.
IT'S LOGICAL. I SEE NO REASON TO DISAGREE.
WITH THIS, I CAN CHECK IF THE SIMULATION RESULT WAS CORRECT.
ワイ
ワイ
ワイ


IT TURNED OUT THAT THE PLACE WHERE THE MOST BALLS GATHERED WAS UNDER THE STAIRS.
SO IT'S DECIDED, THEN!
OKAY. I HAVE NO OBJECTIONS.


NOW, LET'S FOCUS ON PREPARING FOR THE SCHOOL FESTIVAL!


THE PROBLEM IS SOLVED, AND I'VE MANAGED TO PROTECT MY QUIET READING TIME...

...

RIKO!
!?
たたっ!
THANK YOU! YOU'VE BEEN A LIFESAVER!
HUH...?
UM...
YOU'RE WELCOME.
COME ON!
LET'S PREPARE FOR THE SCHOOL FESTIVAL TOGETHER!
OKAY...
BUT I GUESS EVENTS LIKE THIS AREN'T SO BAD...SOMETIMES.

ORIKOU! RIKO-CHAN (Clever Riko-chan)

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