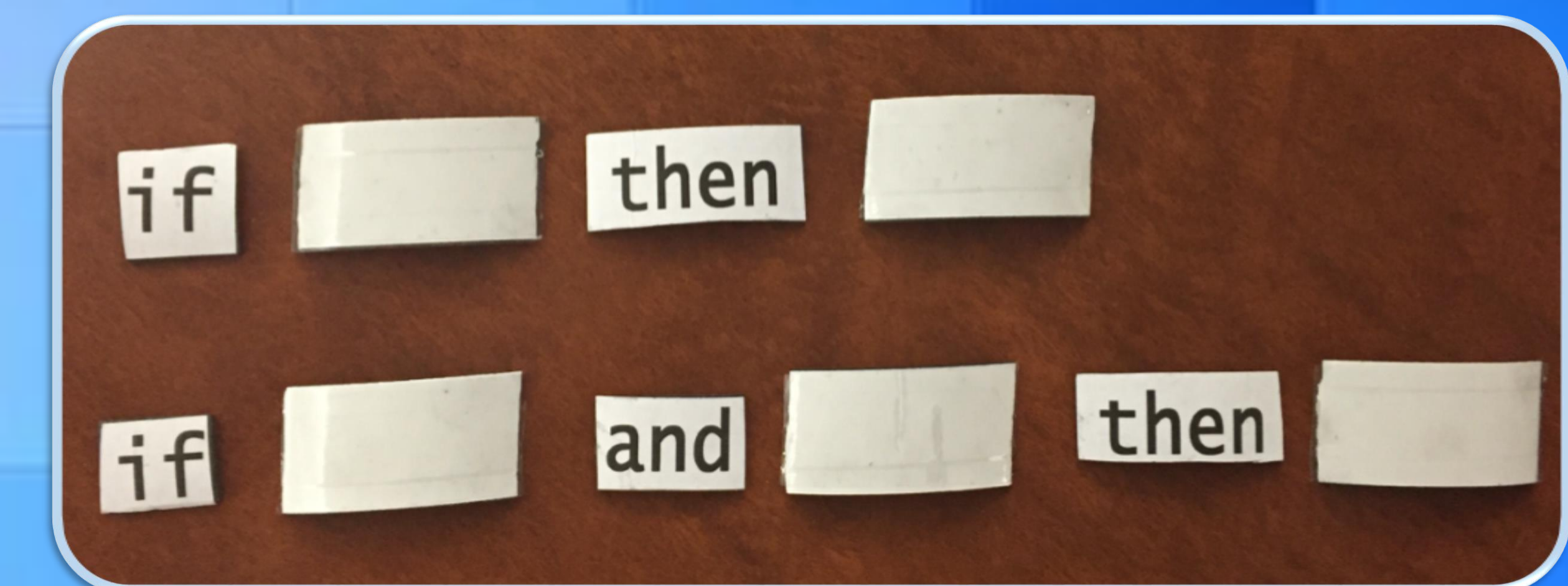


Problem

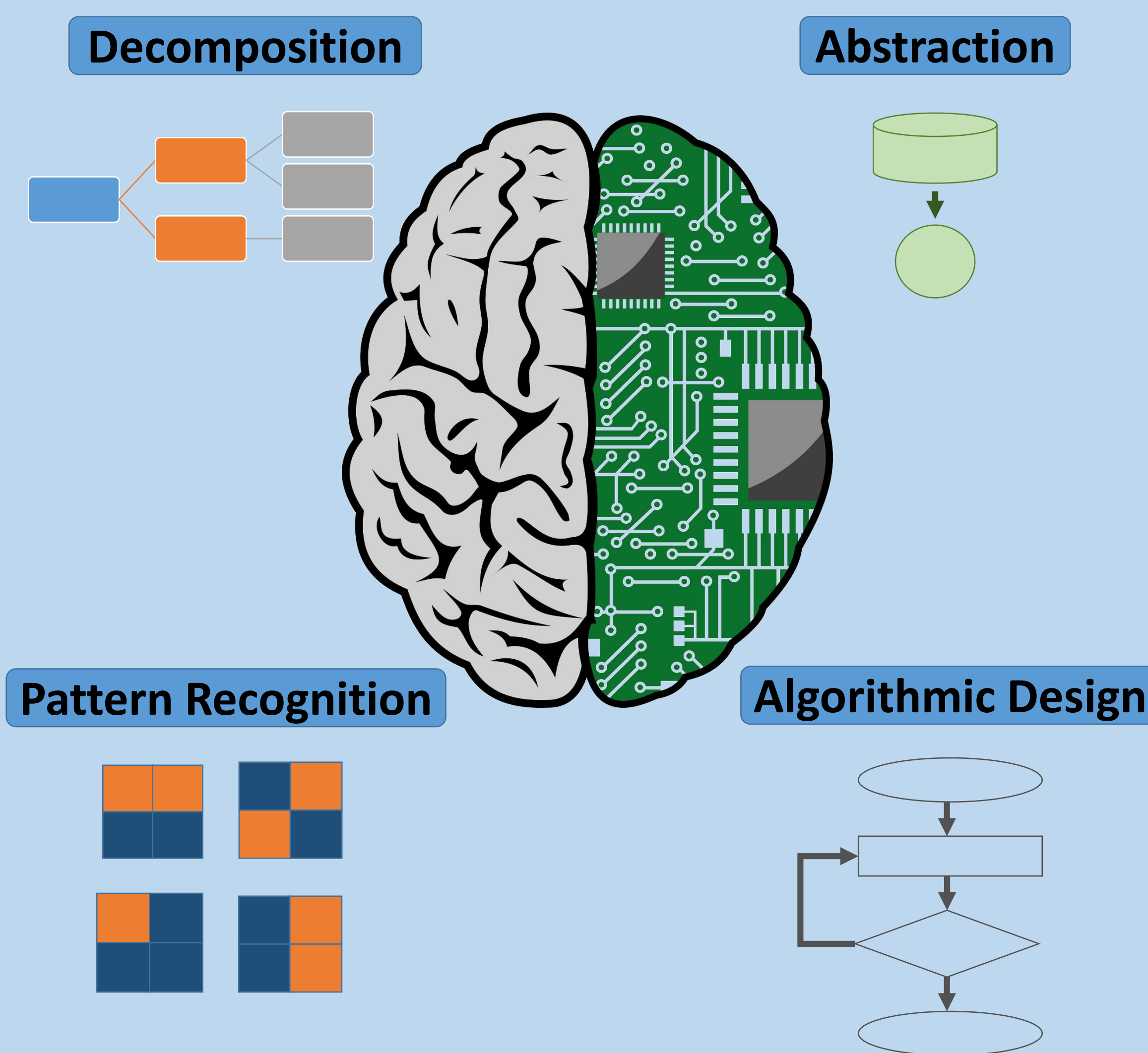
- Students are not learning about computer science in school
- Tools that teach basic computational thinking are not easy to find

Assessment

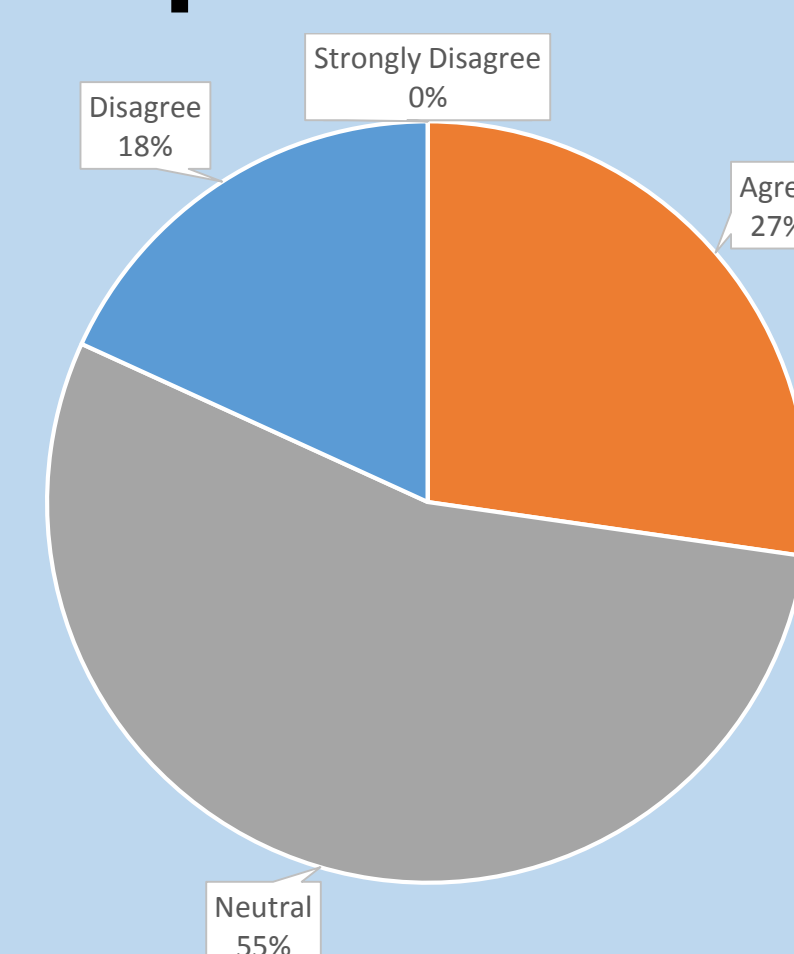
- Students were asked to solve a problem with the help of the magnets
- Both the students and the teacher were surveyed



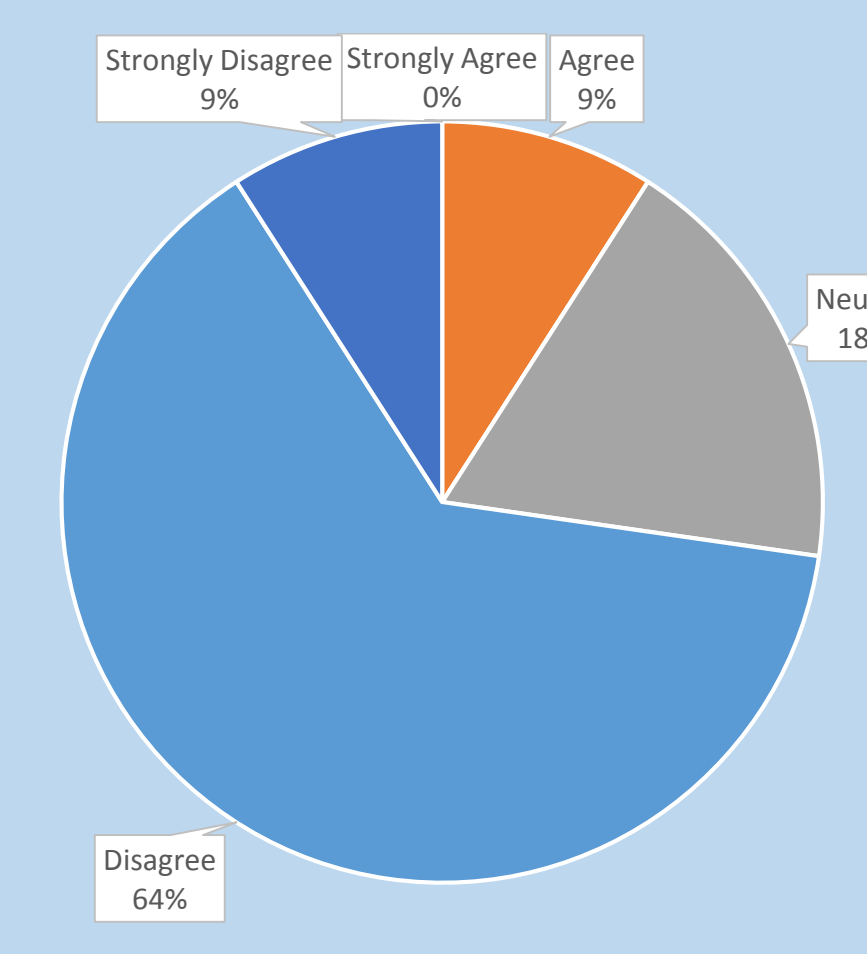
Computational Thinking



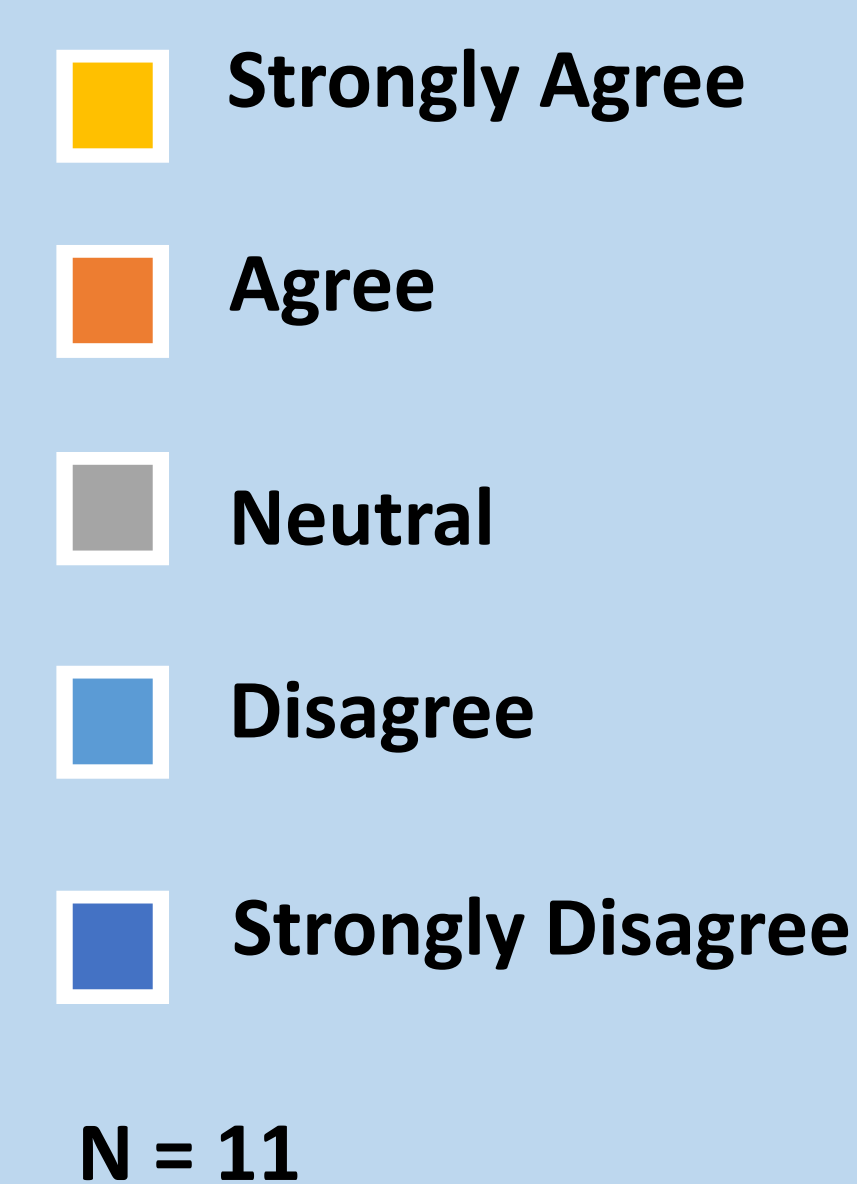
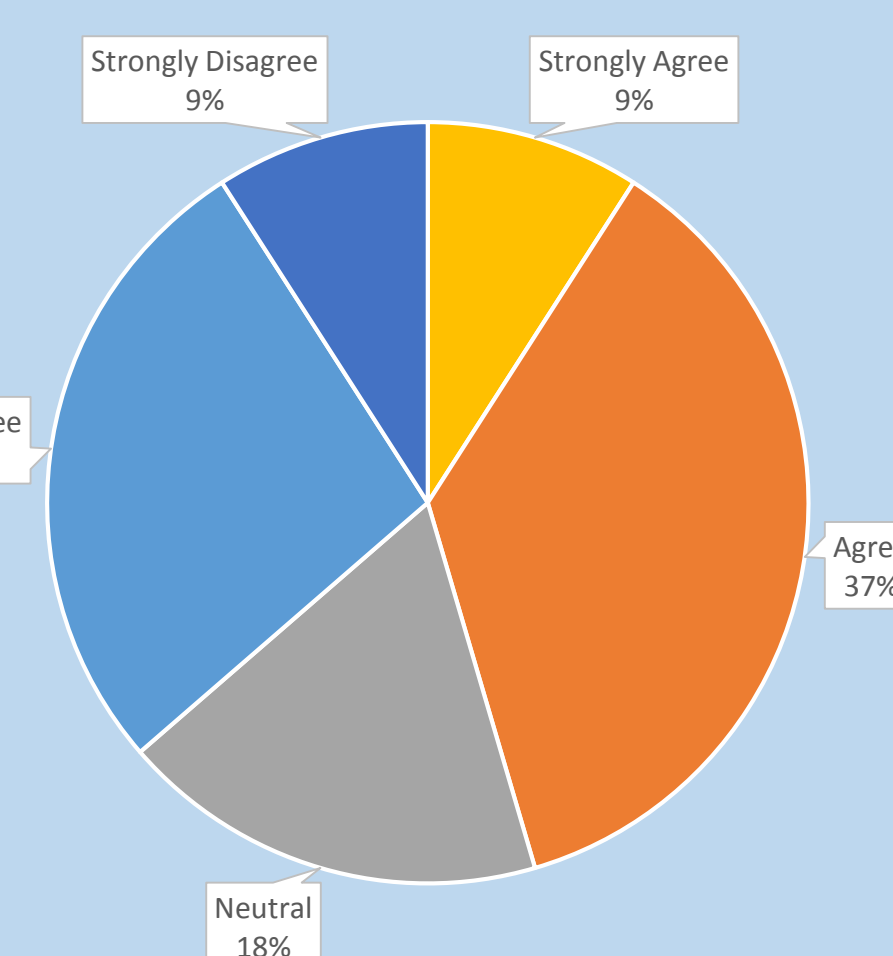
Did you enjoy the problem?



Did you find the magnets helpful?



Did the problems make you think differently?



Conclusions

- Magnets on their own are not sufficient
- The pilot problem was too hard
- One part of the pilot problem was unclear
- Students need more practice to think computationally

Acknowledgements

- John Jay High School
- Thaddius Herman

Solution

- A set of magnets with pseudocode (These promote a programming mindset)

Further Developments

- Magnets with different shapes, words, and symbols
- Adaptable for any kind of problem
- Could be made into tiles

References

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