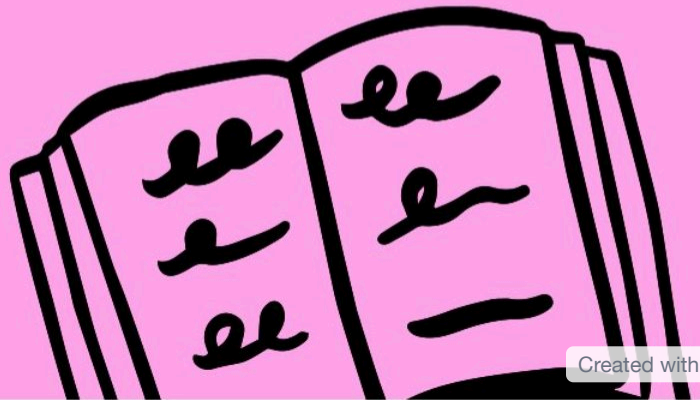
Picture Graphs and Bar Graphs

One vote, one picture, one box!



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Today we will...

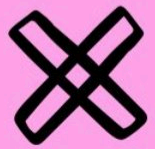
WE ARE LEARNING TO

- Draw a picture graph for up to 4 groups
- Draw a bar graph going up by 1s
- Answer how-many questions about data

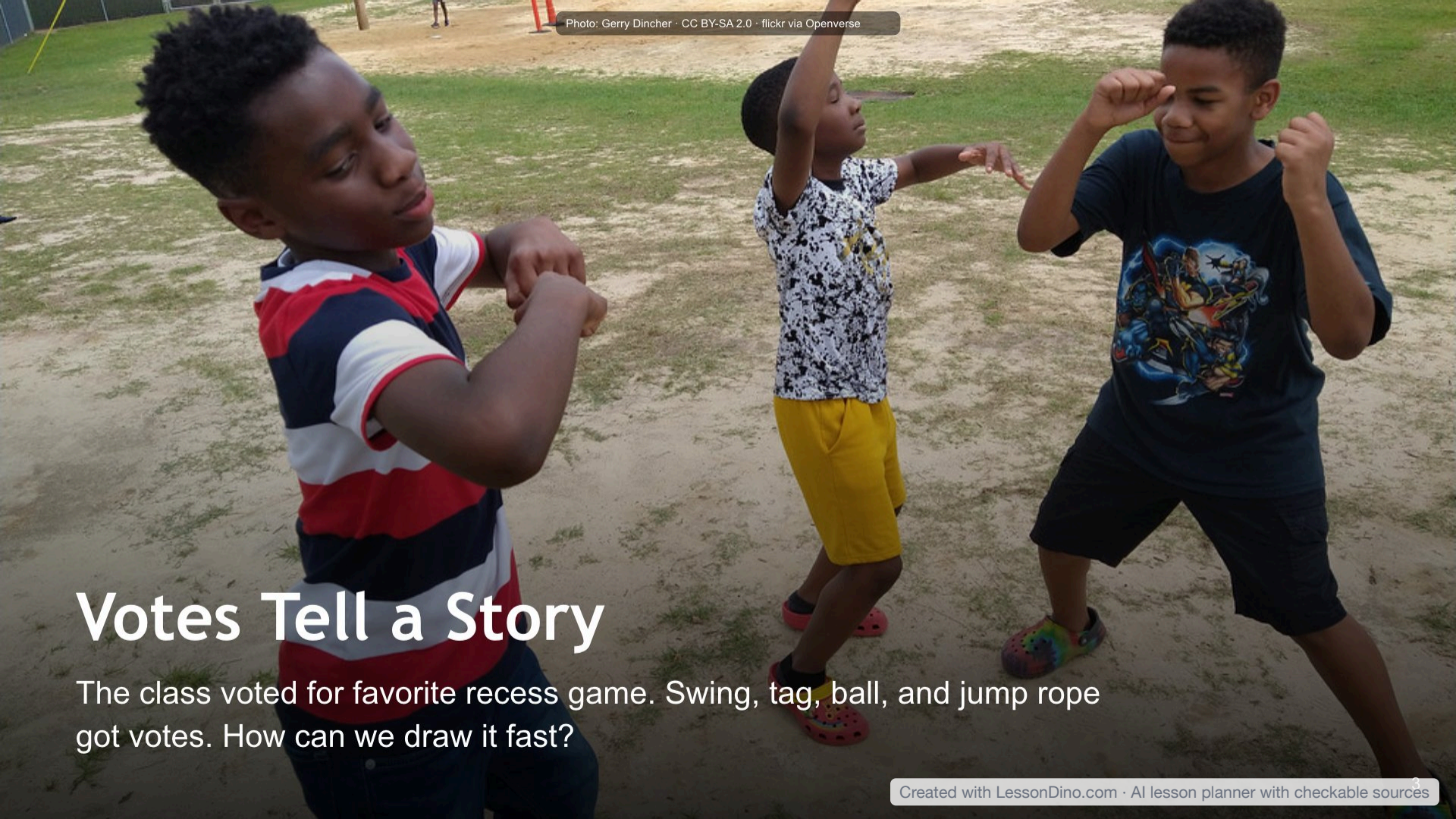
SUCCESS LOOKS LIKE

- ✓ I can use 1 picture for 1 vote
- ✓ I can use 1 box for 1 vote




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Votes Tell a Story

The class voted for favorite recess game. Swing, tag, ball, and jump rope got votes. How can we draw it fast?

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$$A = \left(\frac{b_1 + b_2}{2}\right)h$$

DID YOU KNOW?

Same data can make two graphs!

A picture graph and a bar graph can look different but tell the same story.

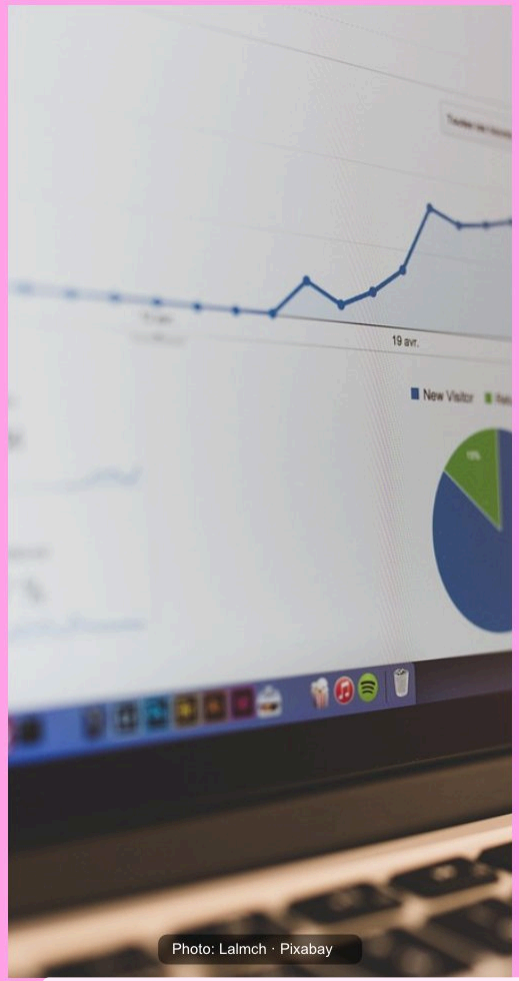


Photo: Lalmch · Pixabay

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Watch: Two Ways to Show Data



▶ 0:00 – 4:11

- Watch how 1 picture stands for 1 vote
- Spot the title and labels
- See same data in bars

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What a Good Graph Needs

- Good Graph
  - title
  - labels for groups
  - 1 box = 1 vote
  - up to 4 groups
  - 1 picture = 1 vote
  - count to check



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Watch: Draw Bars Step by Step



▶ 0:00 – 3:20

- Watch counting up by 1 each time
- See bars start at the bottom
- Check bars stop at right number

$$A = \left(\frac{b_1 + b_2}{2}\right)h$$

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Your task

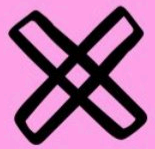
Draw both graphs for pet votes: Dogs 5, Cats 4, Fish 3, Birds 2.

1. Draw 4 rows. Add 1 face for each vote.
2. Draw 4 bars. Color 1 box for each vote.
3. Write a title and label each group.

15 min

In pairs




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Picture Graph or Bar Graph?

Picture Graph

- Uses small pictures
- 1 picture = 1 vote
- Count pictures to compare

Bar Graph

- Uses colored bars
- 1 box = 1 vote
- Taller bar means more



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Your Favorite to Draw

Which graph will you draw again?

- **A** Picture graph
- **B** Bar graph
- **C** Both the same!

$$A = \left(\frac{b_1 + b_2}{2}\right)h$$

Vote with your hands, then explain why.

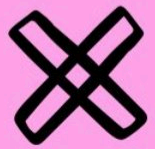


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Quick quiz

1. Dogs have 5 votes. How many pictures in the picture graph?
2. Dogs 5, Cats 4, Fish 3, Birds 2. Which pet has the most votes? How do you know?
3. How many more dogs than birds? 5 and 2.
4. How many votes in all? 5, 4, 3, 2.




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