Picture the Votes

Sort class game votes before making a pictograph.

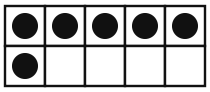
2.D.1.2 "Organize a collection of data with up to four categories using pictographs and bar graphs in intervals of 1s, 2s, 5s or 10s."

NAME _____ DATE _____

WHOLE PICTURES

Each filled box is 1 vote. If 1 full picture stands for 2 votes, this count needs only full pictures.

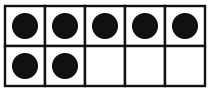
Six votes need 3 full pictures.



HALF PICTURE

A half picture stands for 1 vote. This count needs full pictures and 1 half picture.

Seven votes need 3 full pictures and 1 half picture.



1 SORT

8 items

Each figure shows votes for a class game, so count its filled boxes and circle WHOLE or HALF, then in Part 2 pick two figures and explain how you knew.

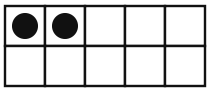
1. 

Figure 1

WHOLE HALF

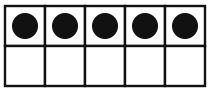
2. 

Figure 2

WHOLE HALF

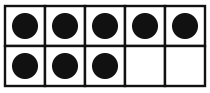
3. 

Figure 3

WHOLE HALF

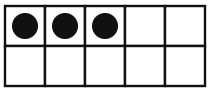
4. 

Figure 4

WHOLE HALF

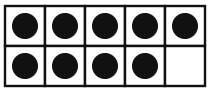
5. 

Figure 5

WHOLE HALF

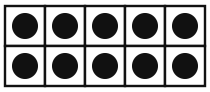
6. 

Figure 6

WHOLE HALF

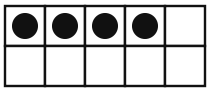
7. 

Figure 7

WHOLE HALF

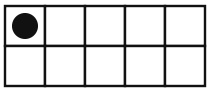
8. 

Figure 8

WHOLE HALF

2 PROVE IT

Explain your thinking

Pick two items from Part 1. For each one, tell how you knew where it belonged.

ITEM # _____ **HOW I KNEW** _____

ITEM # _____ **HOW I KNEW** _____

3 MAKE YOUR OWN

One of each

Write one new vote count for WHOLE and one for HALF. Do not use a count shown in the figures.

WHOLE _____

HALF _____

CHALLENGE

Draw a pictograph for the games in Figures 1 and 2. Label each game, and write a key showing that 1 full picture means 2 votes.

ANSWER KEY

Picture the Votes

GRADE 2 · 2.D.1.2

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (tenframe)	**WHOLE**	Two votes need 1 full picture.
2	Figure 2 (tenframe)	**HALF**	Five votes need 2 full pictures and 1 half picture.
3	Figure 3 (tenframe)	**WHOLE**	Eight votes need 4 full pictures.
4	Figure 4 (tenframe)	**HALF**	Three votes need 1 full picture and 1 half picture.
5	Figure 5 (tenframe)	**HALF**	Nine votes need 4 full pictures and 1 half picture.
6	Figure 6 (tenframe)	**WHOLE**	Ten votes need 5 full pictures.
7	Figure 7 (tenframe)	**WHOLE**	Four votes need 2 full pictures.
8	Figure 8 (tenframe)	**HALF**	One vote needs 1 half picture.

PART 2 · PROVE IT

Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 · MAKE YOUR OWN (SAMPLE ANSWERS)

- **WHOLE**: 12 votes
- **HALF**: 11 votes

Challenge: Key: 1 full circle means 2 votes. The row labeled Game 1 has 1 full circle. The row labeled Game 2 has 2 full circles and 1 half circle.

For Part 2, accept explanations that connect the vote count to groups of 2 and whether 1 vote is left over. For example, Figure 2 has 5 votes: 2 groups of 2 and 1 vote left over.