Make Picture Graphs

Essential Question How do you make a picture graph to show data in a tally chart?

Common Core **Measurement and Data—2.MD.D.10**
MATHEMATICAL PRACTICES
MP1, MP4, MP6

Listen and Draw
Hands On

Take turns choosing a cube from the bag.
Draw a smiley face in the graph for each cube.

Cube Colors					
blue					
red					
green					
orange					

Key: Each ☺ stands for 1 cube.

Math Talk
MATHEMATICAL PRACTICES 6
Explain how you know that the number of smiley faces for blue matches the number of blue cubes.

HOME CONNECTION • Your child made a graph by recording smiley faces for the colors of cubes taken from a bag. This activity prepares children for working with picture graphs in this lesson.

Model and Draw

Each picture in the graph stands for 1 flower.
Draw pictures to show the data in the tally chart.

Number of Flowers Picked

Name	Tally
Jessie	III
Inez	HHI
Paulo	IIII

Number of Flowers Picked

Jessie	⬯	⬯	⬯		
Inez					
Paulo					

Key: Each ⬯ stands for 1 flower.

Share and Show [MATH BOARD]

1. Use the tally chart to complete the picture graph.
   Draw a ☺ for each child.

Favorite Sandwich

Sandwich	Tally
cheese	HHI
ham	II
tuna	IIII
turkey	III

Favorite Sandwich

cheese					
ham					
tuna					
turkey					

Key: Each ☺ stands for 1 child.

☑ 2. How many children chose tuna? _____ children

☑ 3. How many more children chose cheese
     than ham? _____ more children

Name _____

On Your Own

4. Use the tally chart to complete the picture graph.
   Draw a ☺ for each child.

Favorite Fruit	
Fruit	Tally
apple	IIII
plum	II
banana	⊮I
orange	III

Favorite Fruit					
apple					
plum					
banana					
orange					

Key: Each ☺ stands for 1 child.

5. How many children chose banana?   _____ children

6. How many fewer children chose plum
   than banana?   _____ fewer children

7. **THINK SMARTER** How many children chose
   a fruit that was not a plum?

   _____ children

8. **GO DEEPER** Which three fruits were
   chosen by a total of 10 children?

_____

TAKE HOME ACTIVITY • Ask your child to explain how to
read the picture graph on this page.

Make Picture Graphs

1. Use the tally chart to complete the picture graph.
Draw a ☺ for each child.

Favorite Cookie	
Cookie	**Tally**
chocolate	|||
oatmeal	|
peanut butter	⊞⊞
shortbread	||||

Favorite Cookie					
chocolate					
oatmeal					
peanut butter					
shortbread					

Key: Each ☺ **stands for 1 child.**

---

2. How many children chose chocolate?   _____ children

---

3. How many fewer children chose oatmeal than
peanut butter?   _____ fewer children

---

4. Which cookie did the most children choose?

                                                    _____

---

5. How many children in all chose a favorite cookie?   _____ children

---

6. Look at the picture graph above. Write about the
information shown in this graph.

_____

Lesson Check (2.MD.D.10)

1. Use the picture graph. How many more rainy days were there in April than in May?

_____ days

Number of Rainy Days					
March	☂	☂	☂	☂	☂
April	☂	☂	☂	☂	
May	☂	☂			

Key: Each ☂ stands for 1 day.

Spiral Review (2.MD.A.1, 2.MD.C.8)

2. Rita has one $1 bill, 2 quarters, and 3 dimes. What is the total value of Rita's money?

$_____

3. Lucas put 4 quarters and 3 nickels into his coin bank. How much money did Lucas put into his coin bank?

$_____

---

4. Use a centimeter ruler. What is the length of this string to the nearest centimeter?

|—————|

_____ centimeters

5. What is the total value of this group of coins?

$_____ or _____ cents

FOR MORE PRACTICE GO TO THE Personal Math Trainer