Draw and Use Bar Graphs and Picture Graphs

Name: _____

Study the example showing how to use information in picture graphs. Then solve Problems 1–9.

Example

Tess made this picture graph to show the kinds of shoes her friends are wearing. How many friends are wearing sneakers or sandals?

Types of Shoes

Sneakers	☺☺☺☺☺☺☺
Boots	☺☺
Sandals	☺☺☺☺☺

7 friends are wearing sneakers.

5 friends are wearing sandals.

$7 + 5 = 12$

So, 12 friends are wearing sneakers or sandals.

Use the picture graph in the Example to answer the problems below.

1 How many friends are wearing sandals?

    _____

2 How many friends are wearing boots?

    _____

3 Complete the number sentence to show how many more friends are wearing sandals than boots.

    $5 - 2 =$ _____

Vocabulary

picture graph
a way to show data using pictures.

Solve.

Ezra asked his friends if they like to draw with crayons, pencils, or markers best. Then he made this picture graph.

Favorite Drawing Tools

Crayons	☺☺☺☺☺☺
Pencils	☺☺☺☺☺☺☺☺
Markers	☺☺☺

4 How many friends chose pencils? _____

5 How many friends chose markers? _____

6 Complete the number sentence to show how many fewer friends chose markers than pencils.

$8 - 3 =$ _____

7 Write a number sentence to show how many friends chose crayons or markers.

_____ + _____ = _____

8 Do more friends like to draw with crayons or pencils? Circle what more friends like. Then write how many more friends like to draw with that tool.

> Crayons
>
> Pencils
>
> _____ more

9 Write another question about the picture graph. Then answer your question.

_____

_____
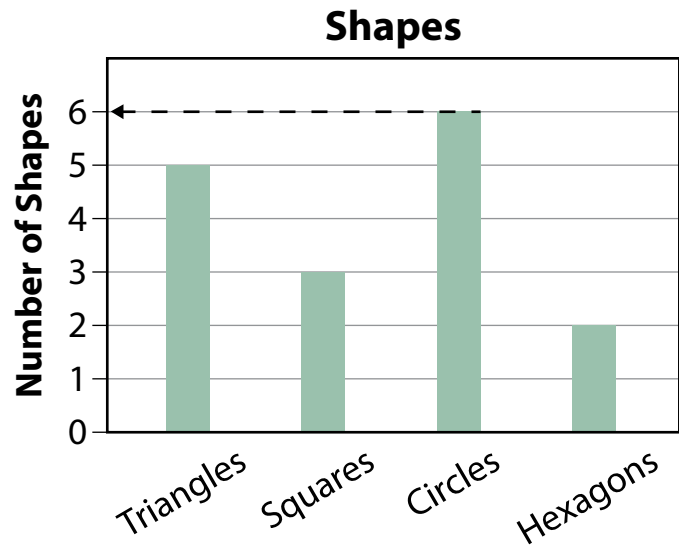
Name: _____

Use a Picture Graph and Bar Graph

Study the example showing how to use a picture graph and a bar graph. Then solve Problems 1–13.

Example

Val counted the shapes of her stickers. She made a bar graph. How many of her stickers are circles?

The bar for Circles goes up to the line for 6.

Val has 6 circle stickers.

Shapes

Number of Shapes

6
5
4
3
2
1
0

Triangles   Squares   Circles   Hexagons

Use the information from the Example to answer Problems 1–4.

1 How many triangles does Val have? _____

2 How many hexagons does Val have? _____

3 Complete the number sentence to show how many more triangles than hexagons Val has.

$5 -$ _____ $=$ _____

4 Write a number sentence to show how many squares and circles Val has in all.

_____ $+$ _____ $=$ _____

Vocabulary

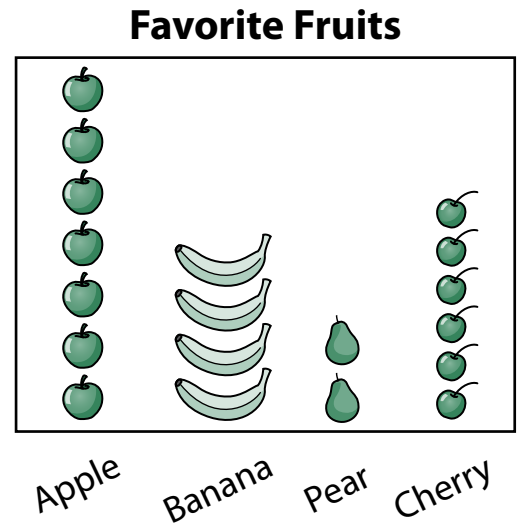**bar graph** a way to show data using bars.

Solve.

Saul asked his friends, "What is your favorite fruit?" Then he made this picture graph.

5 How many friends chose apples? _____

6 How many friends chose pears? _____

7 Complete the number sentence to show how many friends chose apples or pears.

7 + _____ = _____

8 How many fewer friends chose bananas than cherries? _____

Favorite Fruits

Apple   Banana   Pear   Cherry

Rachel asked her friends, "What is your favorite instrument?" Then she made this bar graph.
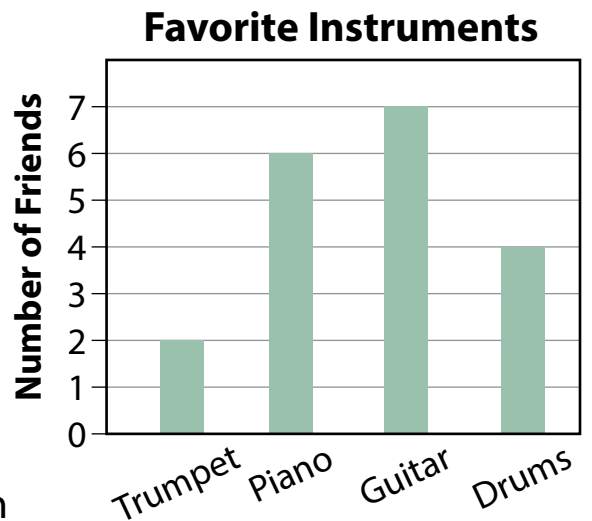
9 How many friends chose piano? _____

10 How many friends chose drums? _____

11 How many more friends chose piano than drums? _____

12 How many fewer friends chose trumpet than guitar? _____

13 How many friends did Rachel ask? _____

Favorite Instruments

Trumpet   Piano   Guitar   Drums

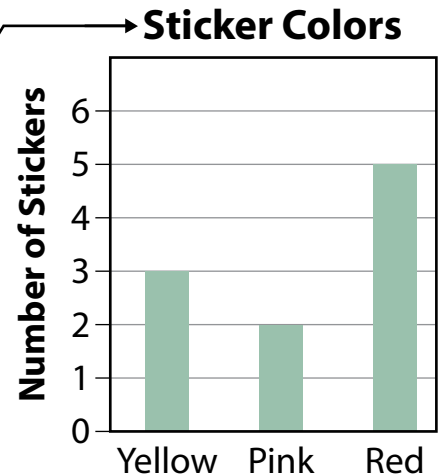Name: _____

Make Bar Graphs and Picture Graphs

Study the example showing how to make a bar graph from a tally chart. Then solve Problems 1–8.

Example

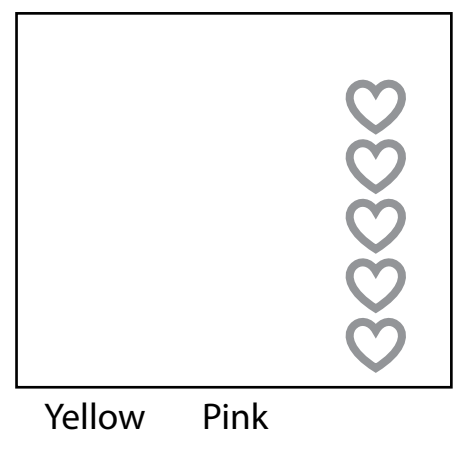Ava made the tally chart below to show the colors of heart stickers she has. Then she made the bar graph.

Yellow	Pink	Red
|||	||	⍦

Ava wrote the title of her graph above it.

Sticker Colors

Number of Stickers

6
5
4
3
2
1
0

Yellow   Pink   Red

Ava wants to make a picture graph. Use the information in Ava's tally chart for Problems 1–4.
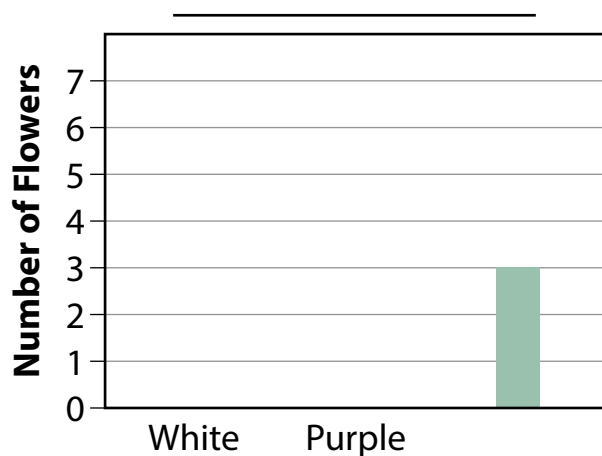
1 Write a title on the line above the graph.

2 Write the missing color name next to Yellow and Pink.

3 Draw the correct number of hearts above the word Yellow.

4 Draw the correct number of hearts above the word Pink.

Yellow   Pink

Solve.

Carter made this tally chart to show the colors of flowers in his window box. Use the data in Carter's tally chart to complete the bar graph.

White	Purple	Orange
IIII	IIII I	III

5 What is a good title for the graph? Write it on the line above the graph.

6 Fill in the missing color next to the word Purple.

7 Draw a bar to show how many white flowers there are.

8 Draw a bar to show how many purple flowers there are.

Vocabulary

data a set of collected information.

Name: _____

Draw and Use Bar Graphs and Picture Graphs

Solve the problems.

1 Tia makes this picture graph to show the bead shapes in her collection. Then her mom gives her 3 more flower beads. Fill in the graph to show how many flower beads Tia has now.

What is the total number of flower beads Tia has now?

Bead Shapes

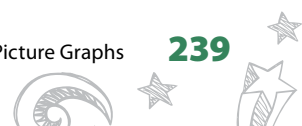| Hearts	♡ ♡ ♡ ♡ ♡ ♡ ♡
Flowers	✿
Moons	☾ ☾
Stars	☆

2 Use your picture graph from Problem 1 to answer the questions below.

How many more hearts does Tia have than moons and stars combined? Circle the correct answer.

How many steps are there to solving this problem?

A 5   **C** 3

B 4   **D** 2

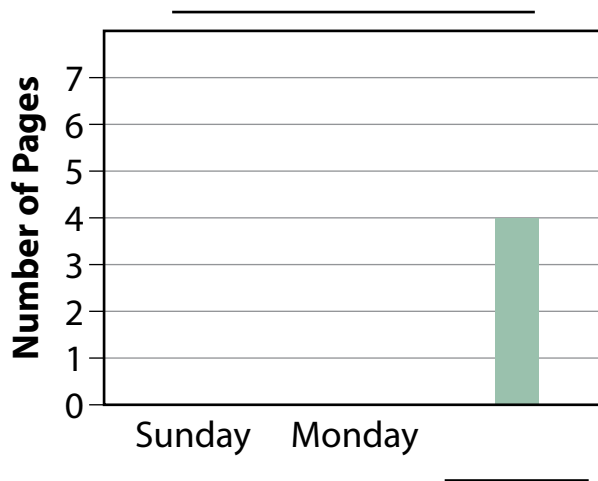Fiona chose **A**. This is wrong. How did Fiona get her answer?

_____

_____

_____

Solve.

3 Milo recorded the number of journal pages he wrote each day in the tally chart below.

Sunday	Monday	Tuesday
卌 I	|||	||||

What can you look at on the bar graph to help you draw each bar the correct height?

Use the tally chart to complete the bar graph.

- Draw the two missing bars.
- Write the missing day.
- Give the graph a title.

_____

Number of Pages

7
6
5
4
3
2
1
0

Sunday   Monday   _____

4 Look at the data in Problem 3.

How many fewer pages did Milo write on Tuesday than on Sunday?

_____

Can you use a number sentence to find how many fewer pages Milo wrote?