# Contents

Making Bar Graphs

To make a bar graph, write the categories on the side or bottom of the graph. Write a scale on the other side. Then draw a bar for each category to the correct number on the scale.

BASEBALL CAPS

Person

Sandra

Jaime

0 1 2 3 4 5 6 7
Number of Caps
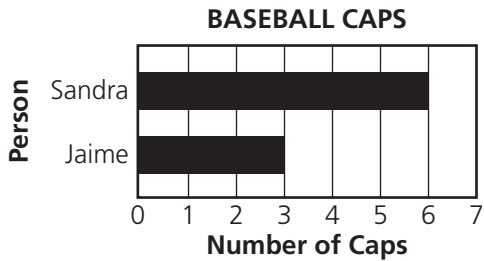
Sandra has 6 caps.
Jaime has 3 caps.

The largest number on the scale must be at least the largest number in the data.

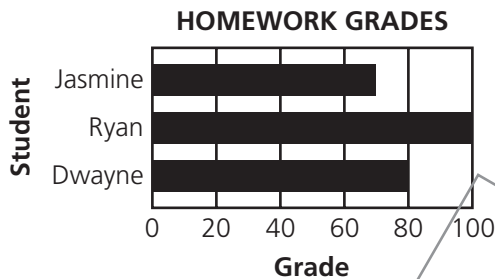The intervals of a scale are the sizes between numbers.

0 5 10 15 20 25
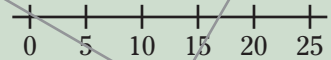
This scale has intervals of 5.

Read each problem. Circle the letter of the best answer.

1 Which set of data is shown in this graph?

HOMEWORK GRADES

Student

Jasmine

Ryan

Dwayne

0 20 40 60 80 100
Grade

A Jasmine–70
Ryan–80
Dwayne–100

C Jasmine–80
Ryan–90
Dwayne–100

B Jasmine–70
Ryan–100
Dwayne–80

D Jasmine–80
Ryan–100
Dwayne–90

Find the end of each bar and look down to the number on the scale. Jasmine's bar ends at 70. Ryan's ends at 100. Dwayne's ends at 80. The correct answer is B.

2 Drew wants to make a bar graph to show the number of coins he has in a jar. He has 30 pennies, 15 nickels, and 20 dimes. What size scale intervals would be **best**?

A 1's

C 4's

B 3's

D 5's

Ms. Chan wants to make a bar graph to compare the number of hours some student volunteers worked at cleaning up a park. She has this data: Mick–4 hours, Aaron–6 hours, Larissa–8 hours, Keiko–5 hours, Madison–9 hours, Sanjay–6 hours. Use this data to answer questions 3 and 4.

3 Which of these scales would be **best** for Ms. Chan to use?

A 0 1 2 3 4 5 6

B 0 2 4 6 8 10

C 0 4 8 12 16

D 0 5 10 15 20
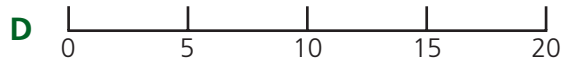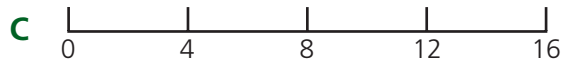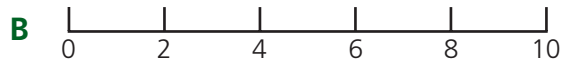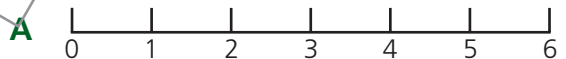
4 How many bars will Ms. Chan need to draw?

A 4

C 6

B 5

D 9

Read each problem. Write your answers.

5 The pictograph shows the number of flowers three girls planted.

FLOWERS PLANTED

Friend	Number of Flowers
Kristi	✿ ✿ ✿ ✿
Marisol	✿ ✿
Jean	✿ ✿ ✿ ✿ ✿ ✿

KEY: ✿ = 3 flowers

A How can you change the data in the pictograph into bars for a bar graph?

_____

_____

_____

_____
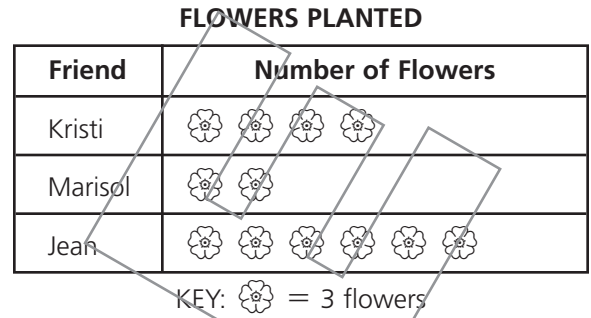
B How many flowers did Kristi plant?

Answer: _____

6 The foods some students ate for breakfast are listed at the right.

eggs	cereal	cereal	bagel
fruit	eggs	cereal	fruit
cereal	cereal	fruit	eggs
cereal	bagel	eggs	cereal
fruit	eggs	cereal	fruit

A Angelina wants to make a bar graph showing how many people ate each breakfast food. How many bars will Angelina need to draw?

Answer: _____

B On the grid, make a bar graph to show how many people ate each type of food for breakfast.

Be sure to
• title the graph
• label the axes
• graph all the data
• provide a scale for the graph