Name _____ Date _____

Picture Graphs

1. Linda's mom is a baker. Linda decided to use a picture graph to show the different flavors of cake her mother baked during a day. Linda finished her data table but forgot to finish the graph. Use the information in the data table to finish the picture graph.

Cakes Baked Today

F Flavor of Cake	N Number of Cakes Baked
Chocolate	12
Vanilla	10
Lemon	6
Spice	2

Cakes Baked Today
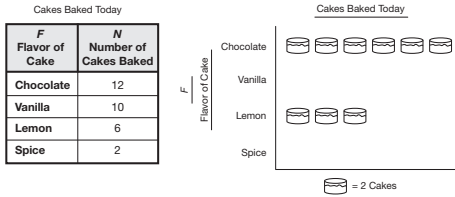
= 2 Cakes

2. What scale did Linda use to make her picture graph? _____

3. A. How many cake symbols did you have to draw on the graph to show 10 vanilla cakes? _____

   B. Show or tell how you know.

4. Write a number sentence to show the difference between the number of chocolate cakes Linda's mom baked and the number of spice cakes she baked.
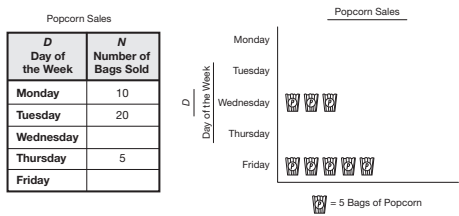_____

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✓ **Check-In: Questions 5-10**

5. The students in third grade were selling popcorn to raise money. They started to draw a data table and a picture graph to show how many bags of popcorn they sold each day. Use the information below to complete the missing parts of the data table and picture graph.

Popcorn Sales

D Day of the Week	N Number of Bags Sold
Monday	10
Tuesday	20
Wednesday	
Thursday	5
Friday	

Popcorn Sales

= 5 Bags of Popcorn

Use your graph and data table to answer the following questions.

6. A. How many popcorn bag symbols did you need to draw on the graph to show the number of bags sold on Tuesday? _____
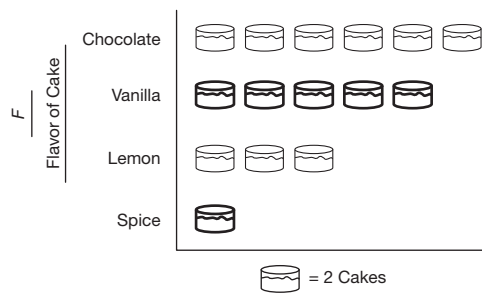
   B. Show or tell how you know.

7. A. How many bags of popcorn did the students sell on Friday? _____

   B. Show or tell how you know.

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Picture Graphs (SAB pp. 23–26)
### Questions 1–10

1.

Cakes Baked Today

= 2 Cakes

2.* 1 symbol = 2 cakes

3. A.* 5 symbols

   B.* Each symbol on the graph is equal to 2 cakes. Since Linda's mom baked 10 vanilla cakes that would equal 5 symbols on the graph because
   $2 + 2 + 2 + 2 + 2 = 10$

4. $12 - 2 = 10$

5.

D Day of the Week	N Number of Bags Sold
Monday	10
Tuesday	20
Wednesday	15
Thursday	5
Friday	25

Popcorn Sales

= 5 Bags of Popcorn

*Answers and/or discussion are included in the lesson.
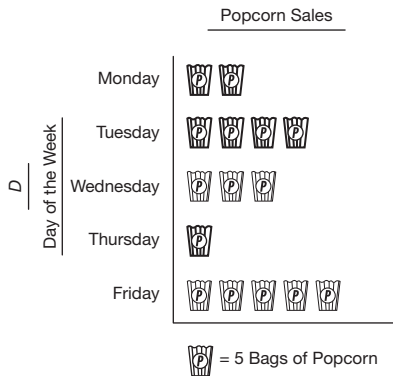
6. A. 4 symbols

B. One response: The class sold 20 bags of popcorn on Tuesday. Since each symbol is equal to 5 bags, I counted by 5s until I got to 20. I had to count 4 times.

7. A. 25 bags

B. One response: Each symbol is equal to 5 bags of popcorn. There are 5 symbols on the graph so I added $5 + 5 + 5 + 5 + 5 = 25$.

8. A. 30 bags

B. Students sold 5 more bags on Monday and Tuesday than they sold on Friday.

C. 30 bags – 25 bags = 5 bags
So, 5 more bags on Monday and Tuesday.

9. A. $10 + 20 + 15 + 5 + 25 = 75$

B. One response: I can count all of the symbols counting by 5s.

10. A. I think they will sell the most on Friday.

B. Since they sold the most this week on Friday, I think they will do it again next week.

Name _____ Date _____

8. A. How many bags of popcorn did the students sell on Monday and Tuesday?
_____

B. How does the total for Monday and Tuesday compare to the amount sold on Friday?
_____

C. Show or tell your thinking.

9. A. Write a number sentence to show how many bags of popcorn the students sold during all five days.
_____

B. Show or tell how to use your graph to answer Question 9A.

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Name _____ Date _____

10. The students decide to sell popcorn during a second week.

A. Predict the day of the week that will have the most sales.
_____

B. Show or tell how you know.

Picture Graphs Check-In: Questions 5–10 Feedback Box	Expec-tation	Check In	Comments
Draw scaled picture graphs from a table. [Q# 5]	E2		
Read a table or scaled graph to find information about a data set. [Q# 5–6]	E3		
Make predictions and generalizations about a population from a sample using data tables and graphs. [Q# 10]	E4		
Solve one- and two-step problems using data in scaled picture graphs. [Q# 7–9]	E5		

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