1.1 Advantages and Disadvantages of Different Graphs

MathLinks 8, pages 6-17

Key Ideas Review

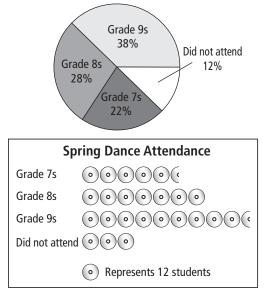
Column B lists several types of graphs. Write the type of graph from column B that best matches the description in column A.

	Α	В	
1	are best for comparing	a) Bar graphs	
categories to the v			
2	_ are best for showing changes	b) Line graphs	
in data over time.			
3	_ are best for comparing two	c) Pictographs	
sets of data across categories.			
4	_ are best for comparing data	d) Circle graphs	
that can be easily counted and represented using			
symbols.		e) Double bar	
5	_ are best for comparing data	graphs	
across categories.			

Practise and Apply

 The student council recorded the number of grade 7, 8, and 9 students who attended the spring dance.

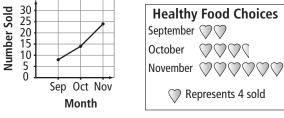




- a) How many more grade 9 students attended the dance compared to the number of grade 8 students? Which graph shows this more clearly? Explain.
- b) Which graph better shows the number of students who did not attend the dance? Justify your answer.
- c) Describe one advantage of using each graph.

7. The graphs show the popularity of healthy food choices, such as mixes of nuts and dried fruit, sold in a school vending machine during the first three months of school.

Healthy Food Choices

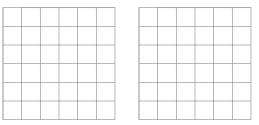


- a) How many more healthy items were sold in November compared to sales in September? Which graph displays this more clearly? Explain your answer.
- b) Between which two months was the greatest increase in sales of healthy items?
- c) Describe one disadvantage of using each graph.
- These tables show the points scored during the first five games of the girls' basketball season.

Lindsay		
Game	Points	
1	18	
2	22	
3	16	
4	20	
5	30	

Jo-Anna		
Game	Points	
1	10	
2	12	
3	8	
4	22	
5	20	
	Game 1 2 3 4	

- Date: ____
- a) Draw a double bar graph and a double line graph to display these data.



- b) Compare the two graphs you drew. Does one present the data more clearly? Explain your answer.
- The table shows the number of games Leah sold at the Village Games Shop in July.

Type of Game	Number Sold
Puzzle	7
Board	13
Computer	10
Video	5

- a) Choose one type of graph to display these data. Explain your choice.
- b) Would a line graph be a good choice to display these data? Justify your answer.