

Proficiency Practice

Data Analysis

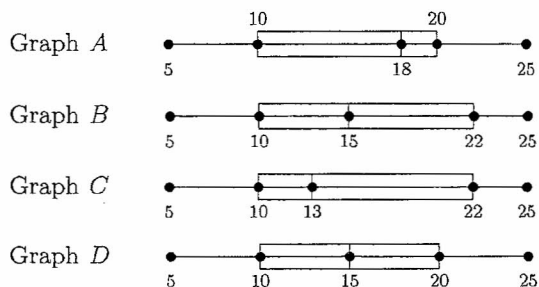
1. Four box and whisker graphs are shown in the figure. Which graph is from the data set with the highest median?

a) Graph A

b) Graph B

c) Graph C

d) Graph D



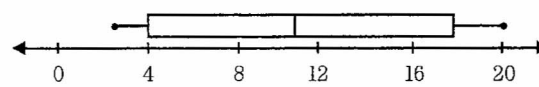
2. The box-and-whisker plot below represents which of the following stem-and-leaf plots?

a)

stem	leaf
2	0
1	1 3 8
0	2 4

b)

stem	leaf
2	0
1	1 8
0	2 4



c)

stem	leaf
2	0 0
1	0 2 8 8
0	2 4 4 6

d)

stem	leaf
2	2 4 4 6
1	0 2 8 8
0	0 0

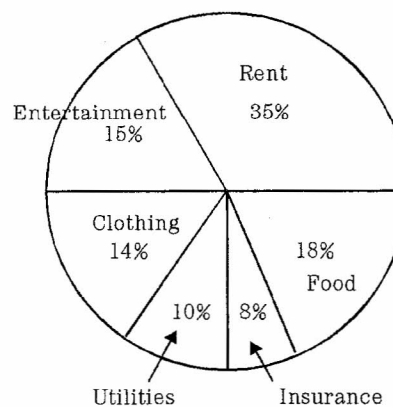
3. The circle graph represents Lisa's expenses for last year. If her total expenses were \$25,000, how much did she spend on rent and utilities?

a) 8,750

b) 3,500

c) 11,250

d) 2,500



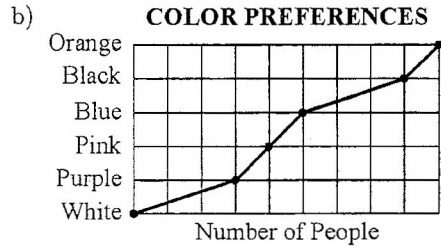
14. Jill needs an average of 90 points to receive the grade she wants on her report card. She has a total of 348 points for the four tests she has taken. Which equation could be used to find P , the number of points she must score on her fifth test to get the average she wants.

a) $\frac{348 + P}{5} = 90$ b) $\frac{348 - P}{3} = 90$ c) $\frac{348 + P}{2} = 90$ d) $\frac{348 - P}{6} = 90$

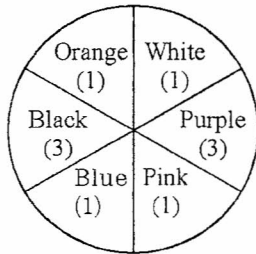
15. Kizzy and Ykelle conducted a survey of ten friends to find out favorite colors. The responses were as follows: White, Purple, Pink, Purple, Blue, Black, Purple, Black, Orange, Black. Which format presents Kizzy's and Ykelle's data *most* appropriately?

a)

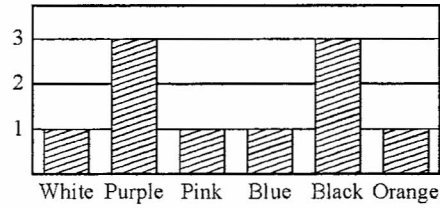
Color	Number
White	
Purple	
Pink	
Blue	
Black	
Orange	



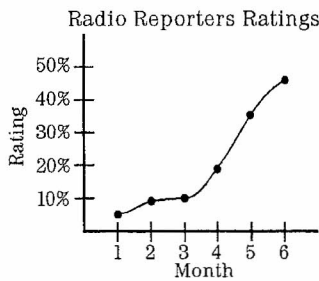
c) **COLOR PREFERENCES**



d) **COLOR PREFERENCES**



16. This graph shows a radio reporter's ratings over a 6-month period. Which of the following *cannot* be answered by this graph?



- a) By what percentage did the ratings increase from Month 2 to 3?
 b) Between which two months did the ratings increase the most?
 c) In which month was the rating the highest?
 d) What were the ratings in the 7th month?
17. Which type of data does a scatterplot present *most* appropriately?

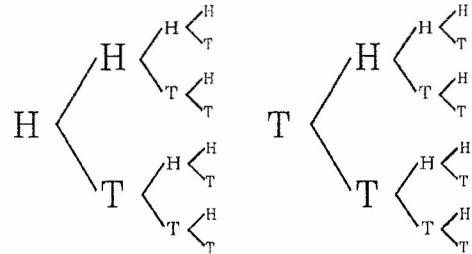
- a) categorical data b) data involving large numbers
 c) data involving two variables d) data involving very small numbers

18. A student was early to class 18 times out of the 20 times the class met. Based on that rate, what is the probability the student will be early to the *next* class meeting?

- a) 2% b) 9% c) 18% d) 90%

19. If a fair coin is tossed 4 times, the possible outcomes are given by the two diagrams shown. What is the total number of possible outcomes of this experiment?

- a) 8 b) 12 c) 15 d) 16



20. The basketball team is choosing new uniforms. The possible choices are listed. How many possible choices are there?

- a) 3 b) 9 c) 18 d) 27

Style	Color	Emble
long sleeve	red	front
short sleeve	white	back
tank	blue	both

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Answer List

- | | | |
|-------|-------|-------|
| 1. a | 2. b | 3. c |
| 4. b | 5. b | 6. b |
| 7. d | 8. c | 9. a |
| 10. b | 11. b | 12. a |
| 13. d | 14. a | 15. d |
| 16. d | 17. c | 18. d |
| 19. d | 20. d | |

Catalog List

- | | | |
|---------------|---------------|---------------|
| 1. NV1 OA 1 | 2. NV1 OA 22 | 3. NV1 OA 5 |
| 4. NV1 OA 12 | 5. NV1 OA 32 | 6. NV1 OB 15 |
| 7. NC5 CE 29 | 8. NV1 OC 8 | 9. NV1 OD 14 |
| 10. NV1 OE 8 | 11. OH1 DD 20 | 12. OH1 DB 37 |
| 13. CA1 AH 35 | 14. CA1 AH 46 | 15. NC5 CF 14 |
| 16. NC5 CE 30 | 17. NC5 CF 11 | 18. NC5 CF 16 |
| 19. CA1 AJ 3 | 20. NV1 EC 3 | |