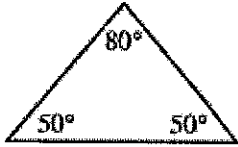


Geometry & Data Review**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

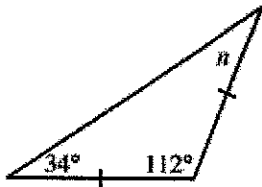
- _____ 1. Classify the triangle by its angles.



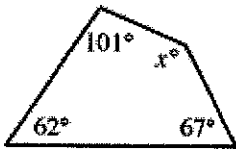
- a. acute triangle b. right triangle c. obtuse triangle
- _____ 2. Tell whether the angle measures are those of a triangle. If so, classify the triangle as *acute*, *right*, or *obtuse*.

$60^\circ, 30^\circ, 80^\circ$

- a. is a triangle, acute c. not a triangle
b. is a triangle, obtuse d. is a triangle, right
- _____ 3. Classify the triangle with angles measuring $76^\circ, 67^\circ$, and 37° .
- a. obtuse b. acute c. straight d. right
- _____ 4. Find the missing angle measure. (The figure may not be drawn to scale.)



- a. $n = 112^\circ$ b. $n = 34^\circ$ c. $n = 68^\circ$ d. $n = 56^\circ$
- _____ 5. Find the value of x .

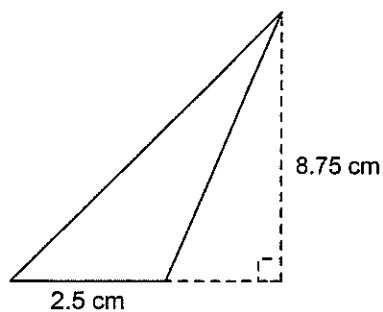


- a. 220 b. 85 c. 40 d. 130

Name: _____

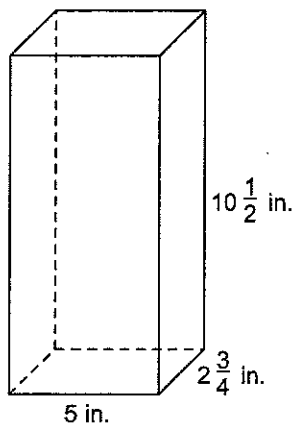
ID: A

_____ 6. What is the area of the triangle below?



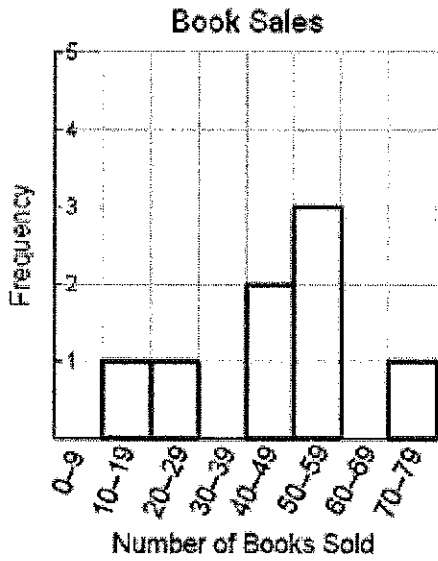
- a. 5.625 cm^2
- b. 10.9375 cm^2
- c. 11.25 cm^2
- d. 21.875 cm^2

_____ 7. What is the volume of the rectangular prism?



- a. $18\frac{1}{4} \text{ in}^3$
- b. $28\frac{7}{8} \text{ in}^3$
- c. $52\frac{1}{2} \text{ in}^3$
- d. $144\frac{3}{8} \text{ in}^3$

8. Which data set could the histogram represent?

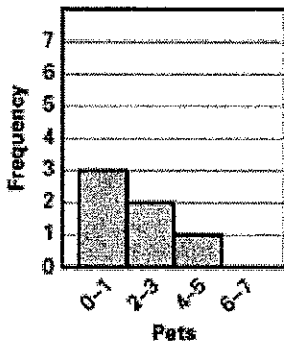


- a. 6, 18, 25, 34, 43, 51, 78
- b. 5, 10, 15, 20, 25, 40, 45, 60, 70
- c. 11, 21, 42, 53, 71
- d. 18, 26, 46, 47, 53, 54, 59, 75

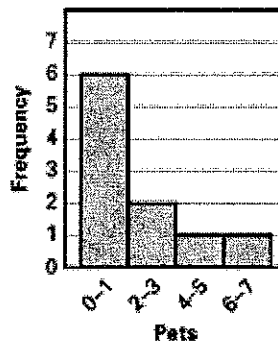
9. Kendra asked her friends how many pets they each had in their family. Her results are shown below.
4, 2, 1, 1, 0, 2, 7, 3, 1, 0, 0

Which is a histogram of the data?

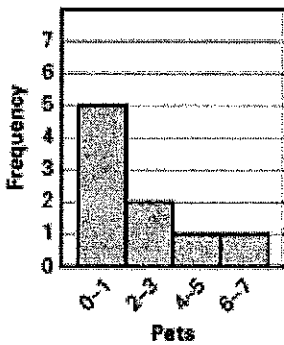
a.



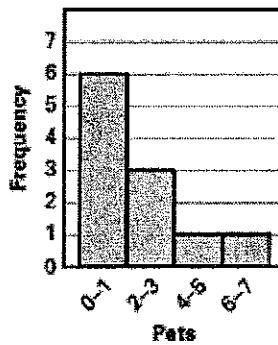
c.



b.



d.



_____ 10. Which data are represented by the stem-and-leaf plot below?

$$\begin{array}{r|l} 5 & 7\ 8\ 9 \\ 6 & 7\ 8\ 9 \\ 7 & 8\ 9 \end{array}$$

Key: 2 | 0 = 20

- a. 7, 8, 9, 7, 8, 9, 8, 9
- b. 75, 85, 95, 76, 86, 96, 87, 97
- c. 57, 58, 59, 67, 68, 69, 78, 79
- d. 57, 58, 59, 76, 86, 96, 87, 97

_____ 11. Which shows the best choice for the stems for a stem-and-leaf plot of the following set of data?

12, 34, 23, 65, 36, 22, 24, 37, 18

a.

Stem Leaves

$$\begin{array}{r|l} 1 & \\ 2 & \\ 3 & \\ 4 & \\ 6 & \end{array}$$

c.

Stem Leaves

$$\begin{array}{r|l} 1 & \\ 2 & \\ 3 & \\ 4 & \\ 5 & \\ 6 & \end{array}$$

b.

Stem Leaves

$$\begin{array}{r|l} 1 & \\ 2 & \\ 3 & \\ 6 & \end{array}$$

d.

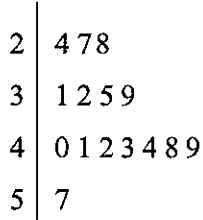
Stem Leaves

$$\begin{array}{r|l} 10 & \\ 20 & \\ 30 & \\ 40 & \\ 50 & \\ 60 & \end{array}$$

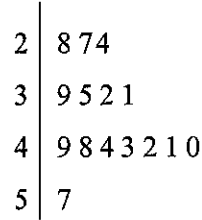
12. The following data are the numbers of minutes it took students to finish an English quiz. Which stem-and-leaf plot represents the data?

27, 32, 41, 24, 28, 48, 40, 39, 49, 57, 35, 31, 42, 43, 44

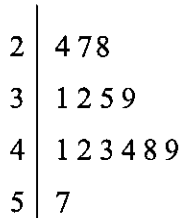
a.



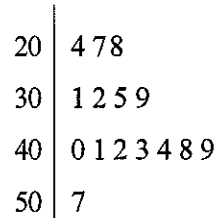
c.



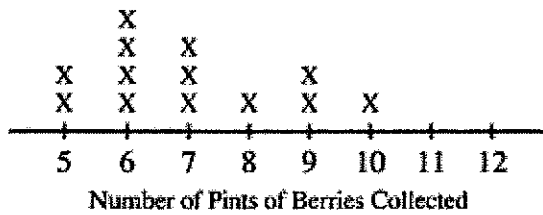
b.



d.

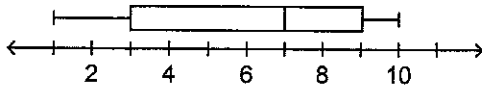


13. There was a berry-picking contest at the Earth Day celebration this year. The line plot below shows the number of pints of berries collected by people participating in the contest. What is the range of the numbers displayed on the line plot?



- a. 7
- b. 5
- c. 4
- d. 6

- _____ 14. The depth of snow at seven different mountain lodges is 18 inches, 20 inches, 26 inches, 22 inches, 85 inches, 18 inches, and 24 inches.
- Find the mean, median, and mode.
 - Which measure is the most useful for predicting how deep the snow will be at an 8th lodge?
 - mean: 30.4 in.
median: 22 in.
mode: 18 in.
 - The median is the most useful.
 - mean: 22 in.
median: 30.4 in.
mode: 18 in.
 - The median is the most useful.
 - mean: 22 in.
median: 30.4 in.
mode: 18 in.
 - The mean is the most useful.
 - mean: 30.4 in.
median: 22 in.
mode: 18 in.
 - The mean is the most useful.
- _____ 15. Find the interquartile range of the data displayed in the box plot shown.



- 9
 - 7
 - 6
 - 3
- _____ 16. The stem-and-leaf plot below shows the number of calendars students sold to raise money for the school band. How many students sold more than 6 calendars?

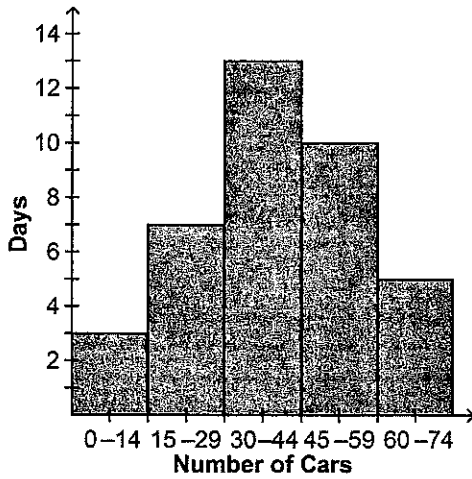
Number of Calendars Sold

0		5 6 7 9
1		4 6 7 8 9
2		5 6

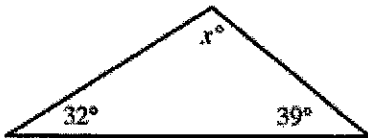
Key: 1 | 0 = 10

- 11
- 9
- 10
- 8

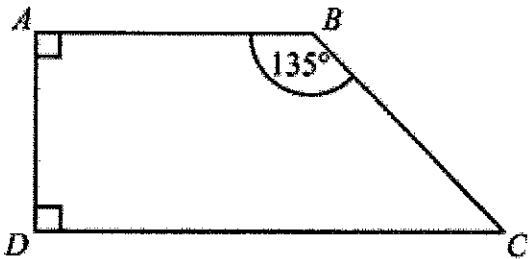
17. A traffic engineer is collecting counts of how many cars are on one street during a specific time each day. The results are shown in the histogram. How many days did the traffic engineer collect data?



- a. 13
 b. 38
 c. 74
 d. The number of days cannot be determined.
18. Which question is a statistical question that may show variability?
 a. How far does Leavon live from his school?
 b. How many blocks is Tamara's home from her school?
 c. How far do the teachers at the Lincoln Middle School live from the school?
 d. How far is the Lincoln Middle School from the town library?
19. Find the value of x .

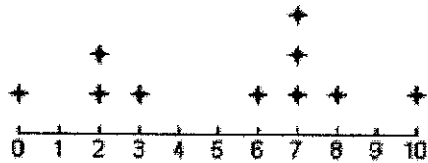


- a. 58 b. 71 c. 51 d. 109
20. The drawing below shows a paving stone that is part of a walkway. (Diagram may not be drawn to scale.) One corner of the paving stone forms an acute angle. What is the measure of the acute angle?



- a. 45° b. 15° c. 25° d. 65°

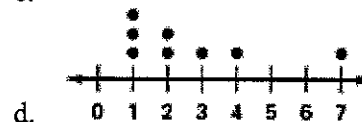
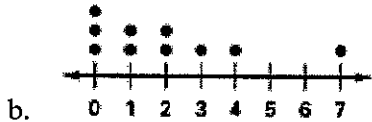
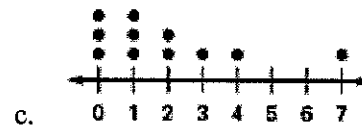
21. Which data set does the line plot represent?



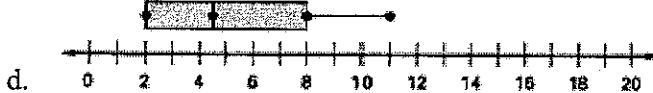
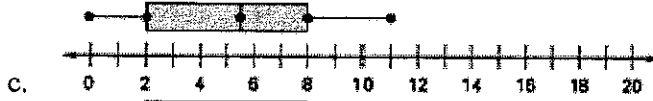
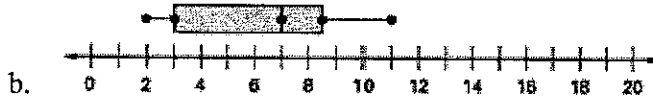
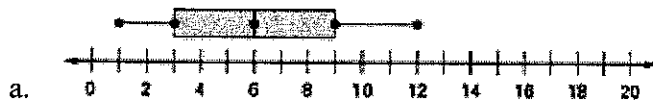
- a. 2, 3, 8, 10, 7, 6, 2, 7, 0, 7
- b. 2, 7, 8, 10, 7, 6, 2, 7, 0, 7
- c. 2, 3, 8, 2, 7, 6, 2, 7, 0, 7
- d. 2, 3, 8, 10, 7, 6, 2, 7, 7, 7

22. Kendra asked her friends how many pets they each had in their family. Her results are shown below.
4, 2, 1, 1, 0, 2, 7, 3, 1, 0, 0

Which is a line plot of the data?



23. Which is the correct box-and-whisker plot for the data set?
3, 2, 11, 8, 9, 8, 7, 3, 5



_____ 24. Which stem-and-leaf plot has a median of 23?

a.

Stems	Leaves
1	23
2	3
3	2334
4	1

b.

Stems	Leaves
1	0123
2	33334
3	45678
4	13579

c.

Stems	Leaves
1	
2	367
3	1237
4	9

d.

Stems	Leaves
1	0012
2	13
3	88
4	347

_____ 25. Find the value of x that makes the mean the given number.

6, 12, 7, 4, 8, 3, x ; mean = 7

- a. 2
- b. 9
- c. 6
- d. 4

_____ 26. Find a set of 5 items that has a range of 9, a mean of 15, a median of 14, and a mode of 11.

- a. 11, 11, 13, 15, 20
- b. 5, 11, 14, 14, 31
- c. 11, 11, 14, 19, 20
- d. 6, 10, 14, 15, 15

_____ 27. In a box-and-whisker plot, the *interquartile range* is a measure of the spread of the middle half of the data. Find the interquartile range for the data set: 10, 3, 8, 6, 9, 12, 13.

- a. 12
- b. 8
- c. 6
- d. 7

_____ 28. What is the median of the data set shown?

34, 86, 12, 56, 21, 98, 72, 34, 21, 34, 45, 23, 97, 44

- a. 34
- b. 39
- c. 44
- d. 53

_____ 29. Find the mode(s) of the data set shown.

2, 6, 8, 3, 4, 6, 2, 6, 8, 5, 6, 2, 7, 8, 4, 3, 2, 7, 3, 4

- a. 2
- b. 4
- c. 3 and 4
- d. 2 and 6

Name: _____

ID: A

- ___ 30. What will **not** help someone build positive credit history?
- a. Paying rent on time
 - b. Missing a credit card payment
 - c. Having a dependable source of income
 - d. Making car payments on time every month