

Data Analysis Test Review

1 The stem and leaf plot shows the number of carnival tickets sold each day.

Carnival Tickets Sold Per Day

Stem	Leaves
3	4 7 7
4	0 1 2 3 4 4
5	2 2 5 6 7 8 9
6	5 6 9
7	0 1 2 3 3

3 | 4 represents 34

Which of the following statements is NOT true about the stem and leaf plot?

- A The least number of tickets sold was 34. ✓
- B The carnival was open for 24 days. ✓
- C There were 2 days when exactly 44 tickets were sold. ✓
- D** The greatest number of tickets sold was 70. X 73

2 Ryan hit double the number of home runs as Dave and Chen combined. How many home runs did Ryan hit?

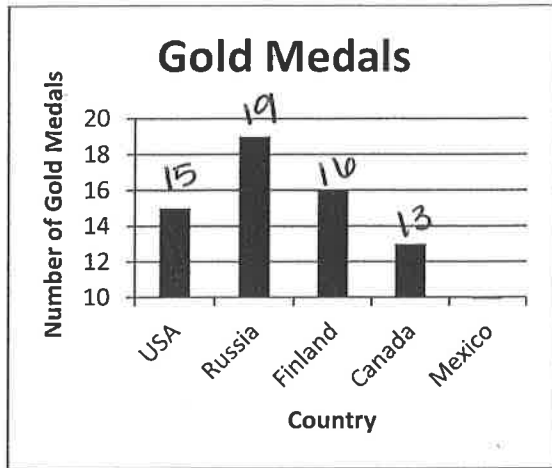
- A 10
- B 8
- C 18**
- D 9

Home Runs	
Player	Frequency
Chen	(4)
Pam	2
Dave	(5)
Ryan	?
Rosa	8

$4 + 5 = 9$
 $9 \times 2 = \boxed{18}$

3 The bar graph below shows the number of gold medals these countries won in the Olympics.

Mexico's gold medals are missing.



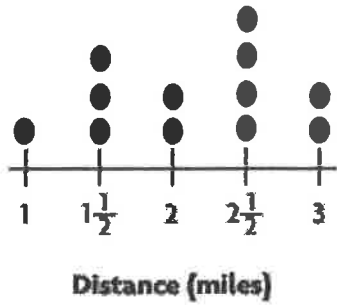
If there were a total of 82 gold medals awarded, how many did Mexico receive?

- A 63
- B 21
- C 16
- D 19**

$$\begin{array}{r}
 15 \\
 + 19 \\
 + 16 \\
 + 13 \\
 \hline
 63
 \end{array}$$

$$\begin{array}{r}
 82 \\
 - 63 \\
 \hline
 19
 \end{array}$$

4 Mrs. O'Mally makes a list to show the miles each dance student travels to the practice center.



How many total miles do the dance students travel?

- A 10 miles
- B 12 miles
- C $25 \frac{1}{2}$ miles**
- D $32 \frac{1}{2}$ miles

$$\begin{aligned}
 1 \times 1 &= 1 \\
 1\frac{1}{2} \times 3 &= 4\frac{1}{2} \\
 2 \times 2 &= 4 \\
 2\frac{1}{2} \times 4 &= 10 \\
 3 \times 2 &= 6
 \end{aligned}$$

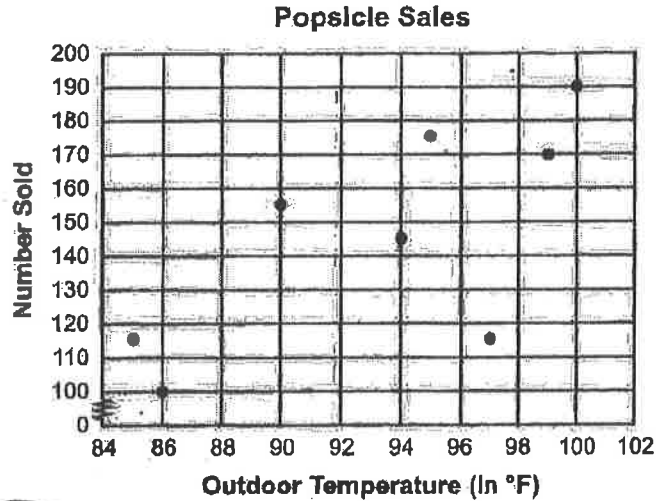
$$\begin{aligned}
 1 + 4\frac{1}{2} + 4 + 10 + 6 &= \\
 25\frac{1}{2}
 \end{aligned}$$

5 Jordan bought a baseball hat for \$28.32 and shoe laces for \$3.45. He paid with a \$50 bill. How much change should Jordan have received?

- A \$31.77
- B \$19.23
- C \$18.24
- D \$18.23**

$$\begin{array}{r}
 28.32 \\
 + 3.45 \\
 \hline
 \$31.77 \\
 \hline
 4 \text{ } 10^9 \text{ } 10^9 \text{ } 10 \\
 50.00 \\
 - 31.77 \\
 \hline
 \$18.23
 \end{array}$$

6 Which chart correctly represents the information in the scatterplot below?



A

Popsicle Sales

Outdoor Temperature (In °F)	85	90	95	94	100	99	86	97
Number Sold	115	155	175	145	190	170	100	115

B

Popsicle Sales

Outdoor Temperature (In °F)	85	90	98	94	100	95	86	97
Number Sold	115	185	210	145	190	115	100	115

C

Popsicle Sales

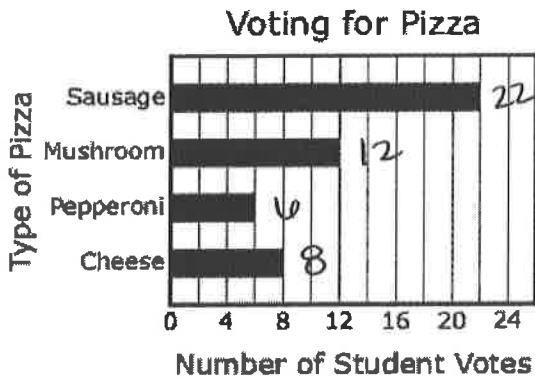
Outdoor Temperature (In °F)	85	90	95	94	100	99	86	97
Number Sold	115	155	175	145	190	200	200	115

D

Popsicle Sales

Outdoor Temperature (In °F)	85	90	97	94	100	99	86	95
Number Sold	115	155	200	145	190	200	180	150

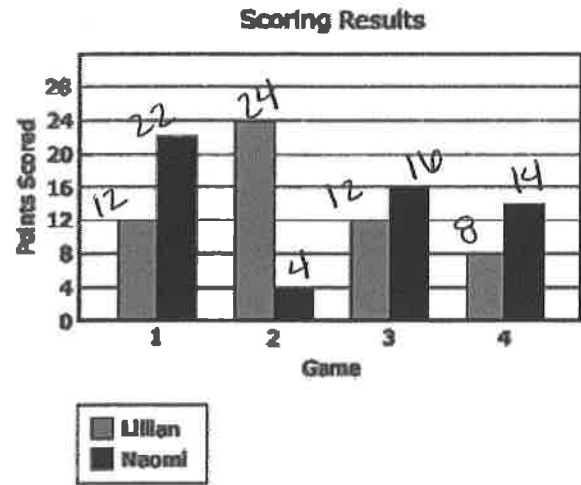
7 The graph below shows 5th grade students who participated in a survey voting for the favorite pizza.



Based on the graph, which statement is NOT true?

- A** There were 48 students that participated in the survey. ✓
 $22 + 12 + 6 + 8 = 48$
- B** More students voted for mushroom, than pepperoni and cheese combined. ✗
 $6 + 8 = 14$
- C** Pepperoni received half the votes that mushroom received. ✓
 6 is $\frac{1}{2}$ of 12
- D** Sausage was voted on more than mushroom and cheese combined. ✓
 $12 + 8 = 20$

8 The graph below shows the top scoring players from the first four girls basketball games of the season.



Based on the graph, which statement is true?

- A** At the end of the 4 games, both girls had scored the exact same amount of points. ✗
- B** Lillian scored more points overall than Naomi. ✗
- C** Naomi scored more points overall than Lillian. ✗
- D** In game one, Lillian scored exactly half the points that Naomi scored. 11 is $\frac{1}{2}$ of 22 ✗

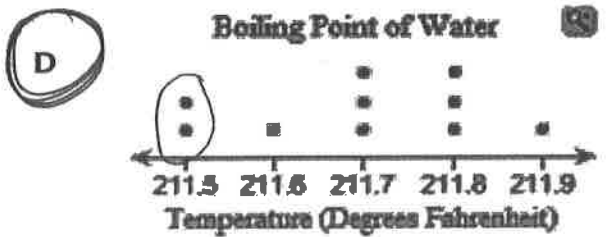
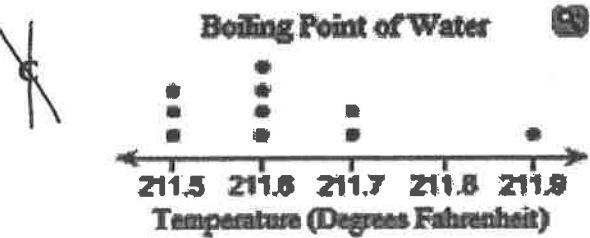
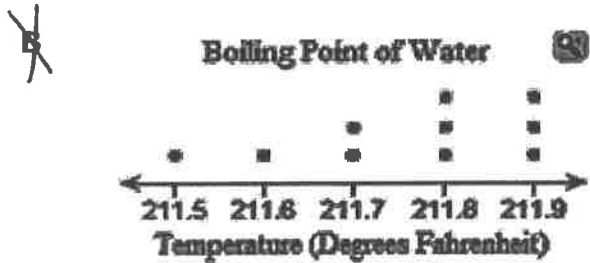
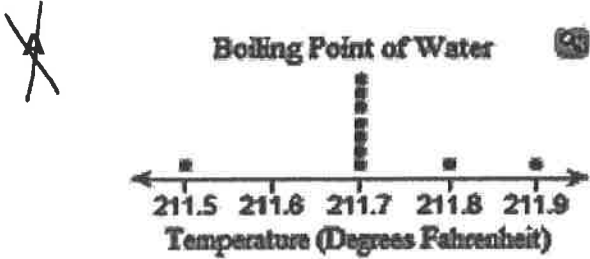
$$12 + 24 + 12 + 8 = 56 \text{ points for Lillian}$$

$$22 + 4 + 16 + 14 = 56 \text{ points for Naomi}$$

9 A scientist measured the temperatures at which water boils. The table shows the results for 10 measurements.

Boiling Point of Water (°F)				
211.5	211.6	211.7	211.5	211.8
211.8	211.7	211.8	211.7	211.9

Which dot plot represents the data?



10 The regular price of a sports water bottle is \$24.25. Jake paid 50¢ less than the regular price for the water bottle. He also paid \$7.30 for a sports head band. What is the total amount Jake paid for these two items?

Record your answer and fill in the bubbles.

$$\begin{array}{r}
 24.25 \\
 - 0.50 \\
 \hline
 23.75 \\
 + 7.30 \\
 \hline
 31.05
 \end{array}$$

	3	1	.	0	5
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

11 The frequency table shows the number of pets that fifth graders preferred to have.

Number of Pets (x)	Tally	Frequency (f)
0		4
1		6
2		5
3		3
4		2

Based on the data in the table, how many students preferred having more than 2 pets?

A 5

$$3 + 2 = 5$$

B 10

C 20

D 8

12 The stem and leaf plot shows the scored of eleven people at shooting baskets in a given amount of time.

Basketball Contest Scores

stem	leaf
0	5 7
1	1 2 2 2
2	0 4
3	
4	1 1 3

0|5 means 0.5

What is the difference between the highest and the lowest score?

A 3.6

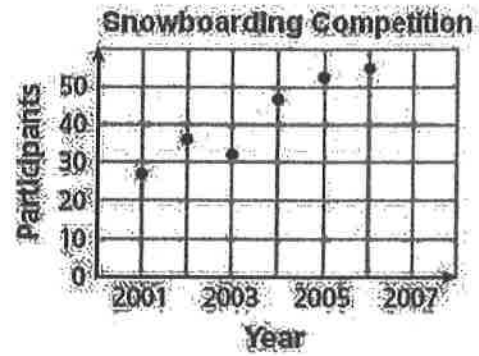
B 3.8

C 3.7

D 3.9

$$\begin{array}{r}
 3 \\
 4.3 \\
 - 0.5 \\
 \hline
 3.8
 \end{array}$$

13 The scatter plot shows the years and the number of participants that participated in the snowboarding competition.



Which table best represents the data in the scatter plot?

A Snowboarding Competition

Years	Number of Participants
2001	27
2002	35
2003	32
2004	48
2005	55

B Snowboarding Competition

Years	Number of Participants
2001	27
2002	35
2003	32
2004	53
2005	55

C Snowboarding Competition

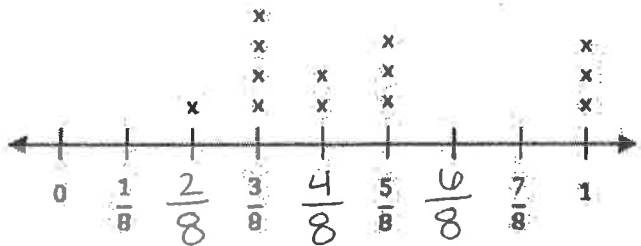
Years	Number of Participants
2001	55
2002	53
2003	32
2004	35
2005	27

D Snowboarding Competition

Years	Number of Participants
2001	27
2002	36
2003	32
2004	48
2005	52

D

14 The thickness of the mattress pads sold at the department store is shown on the dot plot below. These measurements are in inches.



Which set of measurements represent the dot plot above?

A ~~$\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \frac{4}{8}, \frac{5}{8}, \frac{6}{8}, \frac{7}{8}, 1$~~

B $\frac{2}{8}, \frac{3}{8}, \frac{3}{8}, \frac{3}{8}, \frac{4}{8}, \frac{4}{8}, \frac{5}{8}, \frac{5}{8}, \frac{5}{8}, 1, 1, 1$

C $\frac{2}{8}, \frac{4}{8}, \frac{4}{8}, \frac{5}{8}, \frac{5}{8}, \frac{5}{8}, 1, 1, 1$ what about $\frac{3}{8}$?

D ~~$\frac{1}{8}, \frac{4}{8}, \frac{6}{8}, 1$~~

15 Solve the following problems.

$3.23 \times 1.2 = \underline{3.876}$

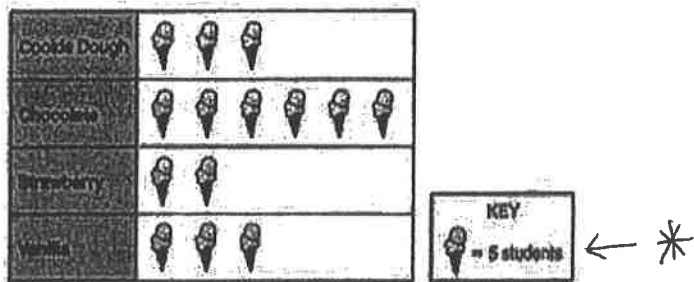
$$\begin{array}{r} 3.23 \text{ (2)} \\ \times 1.2 \text{ (1)} \\ \hline + 646 \\ 3230 \\ \hline 3.876 \end{array}$$

$8\frac{1}{2} + 2\frac{3}{7} = \underline{10\frac{13}{14}}$

$8\frac{1}{2} \times \frac{2}{2} \rightarrow 8\frac{7}{14}$
 $+ 2\frac{3}{7} \times \frac{2}{2} \rightarrow 2\frac{6}{14}$
 $\underline{10\frac{13}{14}}$

16 If each ice cream cone costs \$1.75, how much would it cost to buy ice cream for all the students that like vanilla ice cream only?

Favorite Ice Cream Flavors

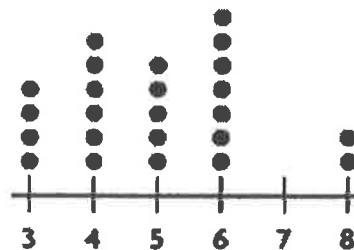


3 cones = 15 students
 3×5

$$\begin{array}{r} 1.75 \text{ (2)} \\ \times 15 \\ \hline 875 \\ 1750 \\ \hline 26.25 \end{array}$$

Answer: \$26.25

17 What is the range of the number of letters in the students' first names?



Number of Letters in First Name

$8 - 3 = 5$

Answer: 5