4.9.A – 4.9B – Represent Data and Solve Problems Problem Set: 1

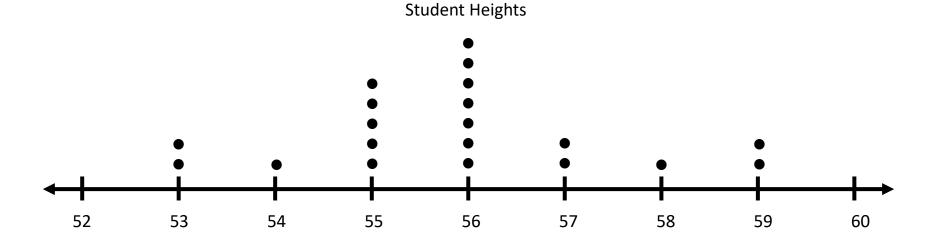
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1.		2.	3.	4.	5.	6.
	57	В	D	D B		29
7.		8.	9.	10.	11.	12.
	D	В	D	А	А	В
13.		14.	15.	16.	17.	18.
	D	А	58	С	79	С
19.		20.	21.	22.	23.	24.
	D	В	D	А	Barry won by 2 votes	С
25.		26.	27.	28.	29.	30.
	C	А	С	С	В	72

1. The table shows the heights in inches of the students in Mr. Garrison's class.

Student Heights						
Height (inches)	Number of Students					
53						
54						
55	#					
56	₩					
57						
58						
59						

Mr. Garrison made this dot plot to show the heights of his students. The dot plot is incomplete.



Which height in inches is missing a data point on the dot plot?

- 2. The list gives information about the favorite color of each of 22 students.
- 6 students chose red. •

Α.

Β.

- 2 students chose yellow. •
- 5 more students chose blue than yellow. •
- 3 fewer students chose purple than red. •
- The rest of the students chose green. •

Which frequency table represents the number of students who chose each color?

Favorite Color				
Color	Number of Students			
Red	₩			
Yellow				
Blue	₩			
Purple				
Green	₩			

Favorite Color				
Color	Number of Students			
Red	₩			
Yellow				
Blue	₩			
Purple				
Green				

4.9.A – 4.9.B – Represent Data and Solve Problems - PS

	Favorite Color					
Cc	Color		lumber of Students			
R	Red					
Yel	Yellow					
B	ue	₩	=			
Pu	Purple Green					
Gr						

Favorite Color				
Color	Number of Students			
Red	₩			
Yellow	_			
Blue	₩ ₩			
Purple				
Green				

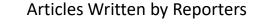
C.

D.

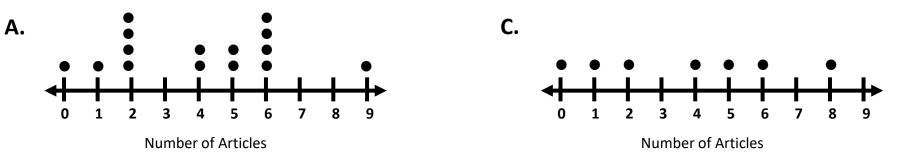
3. The list shows the number of articles written by different reporters at a newspaper last month.

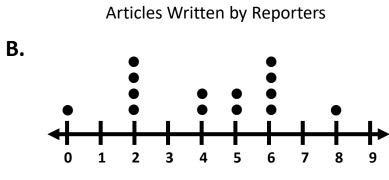
6, 2, 5, 2, 6, 0, 4, 6, 1, 8, 5, 2, 6, 4, 2

Which dot plot displays the same data?

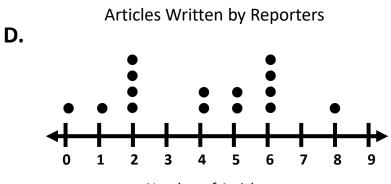








Number of Articles



Number of Articles

4. The frequency table shows the number of times some people visited a movie theater last year.

Number of Visits	Number of People
1-5	
6 - 10	₩
11 – 15	₩
16 – 20	

Movie Theater Visitors

Which set of data could the frequency table represent?

A. 1, 2, 2, 3, 6, 7, 7, 9, 12, 12, 12, 14, 17, 18, 20

B. 0, 2, 4, 5, 6, 6, 7, 8, 9, 11, 11, 13, 14, 15, 20, 20, 20

C. 1, 5, 6, 10, 11, 15, 16, 20, 4, 5, 5, 3

D. 2, 2, 4, 5, 6, 6, 7, 8, 9, 11, 11, 13, 14, 15, 20, 20, 20

5. The stem and leaf plot shows the scores given to the dogs at a dog show. Possible scores were between 0.1 and 5.0.

Dog show Scores						
Stem	Leaf					
0	8					
1	2 5					
2	248					
3	03368					
4	2 5 2 4 8 0 3 3 6 8 0 5 5					
	-					

1|5 means a score of 1.5.

What is the difference between the highest and lowest score shown in the stem and leaf plot?

A. 4.3

B. 3.7

C. 0.25

D. 0.47

6. The frequency table shows the favorite school lunches of some of the students. The table is missing the information for the number of students who like hamburgers best.

Lunch Choice	Tally	Frequency
Pizza	***	32
Hamburger		
Chicken	₩ ₩ =	13

Favorite School Lunches

The number of students who chose a hamburger is half the number of students who chose pizza. How many students chose a hamburger or chicken as their favorite school lunch?

4.9.A – 4.9B – Represent Data and Solve Problems Problem Set: 2

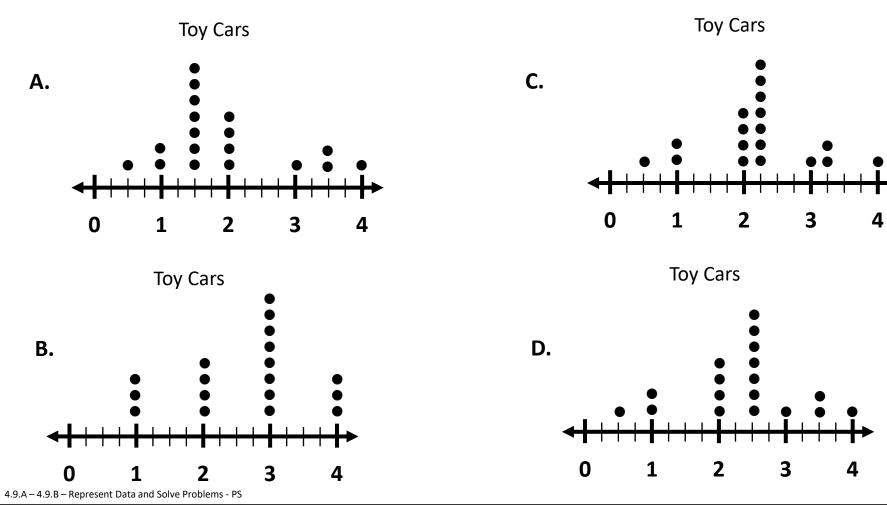
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1.	2.	3.	4.	5.	6.
57	В	D	D	В	29
7.	8.	9.	10.	11.	12.
D	В	D	A	A	В
13.	14.	15.	16.	17.	18.
D	A	58	С	79	С
19.	20.	21.	22.	23.	24.
D	В	D	A	Barry won by 2 votes	С
25.	26.	27.	28.	29.	30.
С	A	С	С	В	72

7. Students pushed toy cars to see how far they would roll. The table shows the number of cars that rolled different distances. Toy Cars

Distance (feet)	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Number of cars	1	2	0	4	7	1	2	1

Which dot plot represents the data in the table?



8. The table shows the total numbers of runs different baseball teams scored in one season. Which stem and leaf plot matches the information in the table? **Baseball Runs Scored**

Team	Total Number of Runs Scored
R	61
S	92
Т	100
U	65
V	72
W	64
Х	84

Β. С.

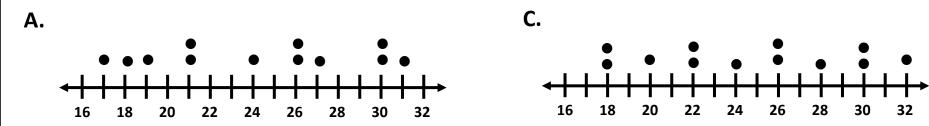
Α.		В.		С.		D.	
Baseball Ru	uns Scored	Baseball Runs Scored		Baseball Runs Scored		Baseball Runs Scored	
Stem	Leaf	Stem	Leaf	Stem	Leaf	Stem	Leaf
6	1	6	145	6	145	6	1
9	2	7	2	7	2	6	5
10	0	8	4	8	4	6	4
6	5	9	2	9	2	7	2
7	2	10	0	10		8	4
6	4			6 1 means 61 runs		9	2
8	4	6 1 mear	IS 61 runs	6 1 mear	IS 61 runs	10	0
6 1 means 61 runs						6 1 mear	ns 61 runs

4.9.A - 4.9.B - Represent Data and Solve Problems - PS

9. The list shows the lengths of twelve strings in inches.

26, 30, 19, 21, 24, 26, 18, 31, 27, 21, 17, 29





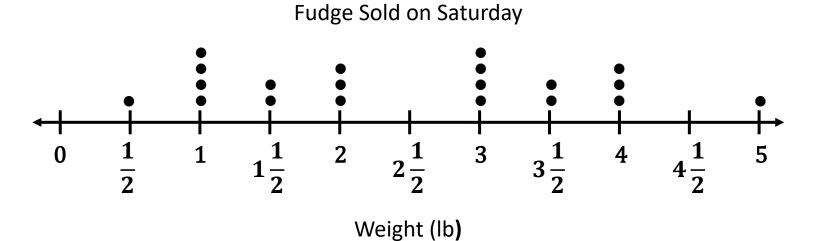
Β.	String Lengths				
	Stem	Leaf			
	1	789			
	2	1 1 4 6 6 7 9 1			
	3	1			
		-			

1 8 means 18 inches

D.	String L	String Lengths				
	Stem	Leaf				
	1	789 1146679 01				
	2	1146679				
	3	01				

1 8 means 18 inches

10. candy store sells fudge by the pound. The dot plot shows the number of customers who bought different numbers of pounds of fudge on Saturday.



Which frequency table represents the same data as the dot plot?

	Weight (lb)	1/2	1	1 ½	2	2 1/2	3	3 1/2	4	4 ½	5
Α.	Tally				≡						
-	Weight (lb)	1	4	2	3	0	4	2	3	0	1
Β.	Tally										
-	Weight (lb)	1/2	1	1 ½	2	2 1⁄2	3	3 1⁄2	4	4 ½	5
С.	Tally				■				≡		I
			i	1		1	i			1	
	Weight (lb)	1/2	1	1 1⁄2	2	2 1/2	3	3 1/2	4	4 ½	5
D.	Tally										

4.9.A - 4.9.B - Represent Data and Solve Problems - PS

11. Karnika recorded the number of minutes she practiced volleyball each week for several weeks. She used a stem and leaf pot to organize the data.

	Volleyball Practice Time				
	Stem				
	14	0 2 2 5 5 0			
	15	5 5			
	16	0			
	14 2 means	142 minutes.			

Based on the data, what is the amount of time in minutes Karnika practiced volleyball?

A. 894 min

B. 597 min

C. 594 min

D. 1,224 min

12. The stem and leaf plot shows the number of miles members of the walking club walked last week.

Miles Walked				
Stem	Leaf			
1	7			
2	0, 2, 2, 3, 6, 7			
3	2, 3, 5, 5, 7, 7, 7, 9, 9			
2 0, 2, 2, 3, 6, 7 3 2, 3, 5, 5, 7, 7, 7, 9, 9 4 0, 1, 1, 2				
1 7 means 17 miles.				

What is the difference between the most miles walked and the least miles walked as shown in the stem and leaf plot?

A. 27

B. 25

C. 15

D. 17

4.9.A - 4.9.B - Represent Data and Solve Problems - PS

4.9.A – 4.9B – Represent Data and Solve Problems Problem Set: 3

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		., 5			
1.	2.	3.	4.	5.	6.
57	В	D	D	В	29
7.	8.	9.	10.	11.	12.
D	В	D	А	А	В
13.	14.	15.	16.	17.	18.
D	А	58	С	79	С
19.	20.	21.	22.	23.	24.
D	В	D	А	Barry won by 2 votes	С
				2.0000	
25.	26.	27.	28.	29.	30.
С	А	С	С	В	72

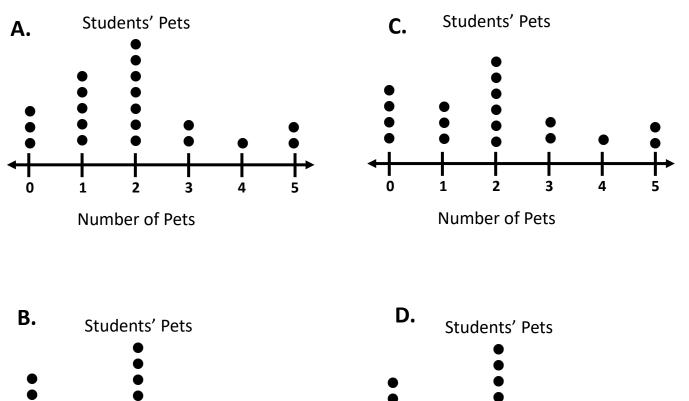
13. The table shows the number of pets that each student in Mrs. Morris's class owns. Which dot plot represents the data in the table?

Number of Pets

4.9.A - 4.9.B - Represent Data and Solve Problems - PS

Student's Pets

Number of pets	Frequency
0	#
1	
2	₩
3	
4	
5	



Number of Pets

14. The stem and leaf plot shows the numbers of tickets Stephen won when he played games at a carnival.

Number of Tickets Won					
Stem					
8	48				
9	068				
10	5 5				
11	4 8 0 6 8 5 5 7				
9 6 means 96 tickets					

What is the total number of tickets that Stephen won at the carnival?

A. 783

B. 178

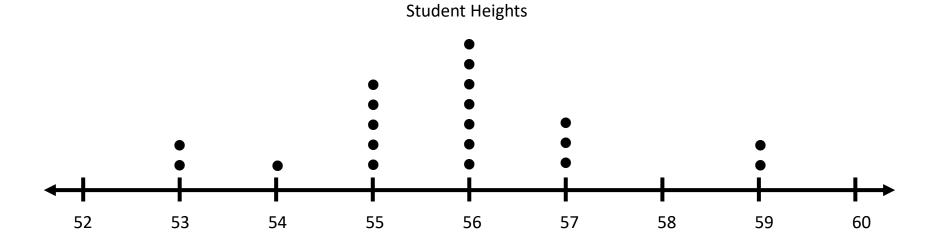
C. 81

D. 678

15. The table shows the heights in inches of the students in Mr. Gurley's class.

Student Heights		
Height (inches)	Number of Students	
53		
54		
55	₩	
56	₩	
57		
58		
59		

Mr. Gurley made this dot plot to show the heights of his students. The dot plot is incomplete.



Which height in inches is missing a data point on the dot plot?

16. The list gives information about the favorite subject of 25 students.

- 6 students chose reading
- 9 students chose math

Α.

Β.

- 4 more students chose reading than science.
- 6 fewer students chose art than math.
- The rest of the students chose P.E.

Which frequency table represents the number of students who chose each subject?

Favorite Subject		
Subject	Number of Students	
Reading	₩ ₩	
Math	₩	
Science		
Art		
P.E.	₩	

Favorite Subject		
Subject	Number of Students	
Reading	₩	
Math	₩	
Science		
Art		
P.E.	*	

Favorite Subject					
Subject	Number of Students				
Reading	₩				
Math	₩				
Science					
Art					
P.E.	#				

C.

D.

Favorite Subject					
Subject	Number of Students				
Reading	₩				
Math	₩ ₩				
Science					
Art					
P.E.	#				

4.9.A – 4.9.B – Represent Data and Solve Problems - PS

17. The frequency table shows the favorite pets of some of the students. The table is missing the information for the number of students who chose cats as their favorite.

Favorite Pets					
Pet	Tally	Frequency			
Dogs	***	43			
Cats					
Lizards	₩	9			

The number of students who chose cats is four times the number of students who chose lizards. How many students chose a dog or cat as their favorite pet? 18. Jordy bought a sack of potatoes and weighed each potato. The potatoes weighed between 5 and 10 ounces each. The Stem and Leaf plot shows the weights of the potatoes.

Potato Weights					
Stem					
5	2, 2, 4, 7, 8 2, 3, 7, 8 0, 3, 5, 8, 8 1, 2, 3, 7 0, 2				
6	2, 3, 7, 8				
7	0, 3, 5, 8, 8				
8	1, 2, 3, 7				
9	0, 2				

5|6 means 5.6 ounces.

What is the difference between the weight of the heaviest and lightest potao?

A. 3.4 ozs

B. 0.4 ozs

C. 4.0 ozs

D. 40 ozs

4.9.A – 4.9B – Represent Data and Solve Problems Problem Set: 4

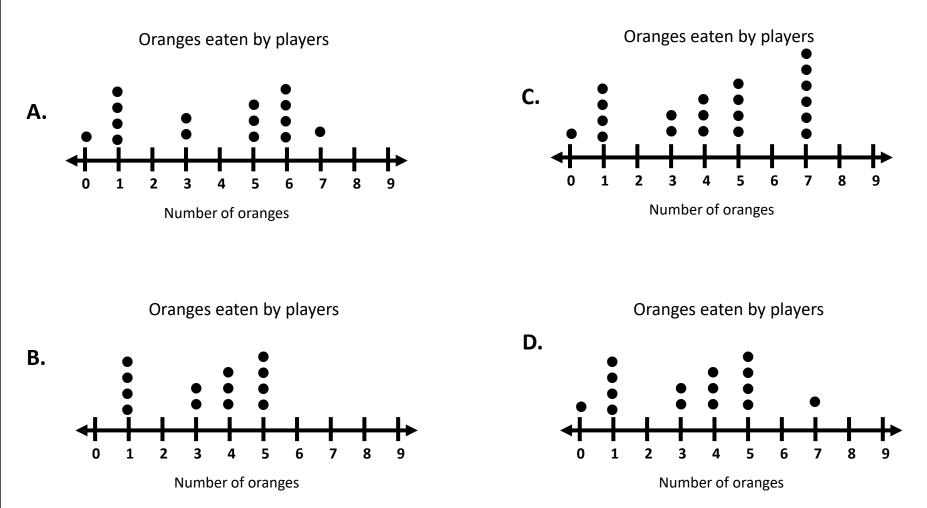
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		., 5			
1.	2.	3.	4.	5.	6.
57	В	D	D	В	29
7.	8.	9.	10.	11.	12.
D	В	D	А	А	В
13.	14.	15.	16.	17.	18.
D	А	58	С	79	С
19.	20.	21.	22.	23.	24.
D	В	D	А	Barry won by 2 votes	С
				2 0000	
25.	26.	27.	28.	29.	30.
С	А	С	С	В	72

19. The Baylor Football team loves oranges. The following shows the number of oranges eaten yesterday by different members of the Baylor football team.

5, 1, 4, 1, 5, 4, 3, 5, 0, 7, 4, 1, 5, 3, 1

Which dot plot displays the same data?



20. The frequency table shows the points students earned in the summer reading program last year.

Summer Reading Program

Points					
Number of points	Number of readers				
Less than 50					
51 – 75					
76 - 100	₩				
101 or more	₩				

Which set of data could the frequency table represent?

A. 11,78,83,87,8790,91,92,92,93,97,101,107,111,112,113,115,133,138

B. 11,22,39,46,54,55,59,68,78,83,87,87,90,91,111,112,113,115,133,138

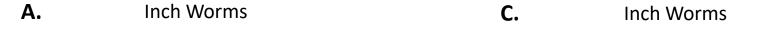
C. 54,55,59,68,78,83,87,8790,91,111,112,113,115,133,138,212,232,252

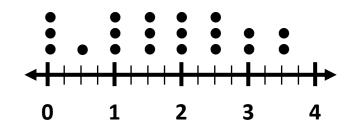
D. 11,22,39,46,54,55,59,68,111,112,113,115,128, 132,133,138,145,153

21. Scientists studied inch worms to see how far they could inch in 5 minutes in freezing temperatures. The chart shows the Inch Worms results.

Distance (feet)	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Number of inch worms	3	1	3	3	3	3	2	2

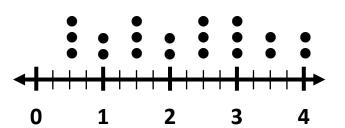
Which dot plot represents the data in the table?

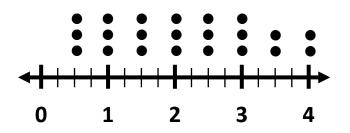




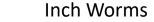
Β.

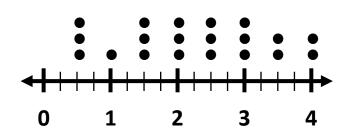






Inch Worms D.





22. The table shows the field goal percentage for different players on a basketball team. Which stem and leaf plot shows the same information?

Player	Field Goal %
R. Woodard	12
Z. Collins	49
R. Langford	43
K. Diop	51
D. Murray	46
J. Poeltl	61
J. Wieskamp	35

Field (Goal	Percen	tage
---------	------	--------	------

Α	Α.		В.		С.		D.	
Field Goal	Percentage	Field Goal	Field Goal Percentage		Field Goal Percentage		Field Goal Percentage	
Stem	Leaf	Stem	Leaf	Stem	Leaf	Sten	Leaf	
1	2	1	12	1	2, 5, 6		5,6	
2		2		2			2 1	
3	5	3	35	3	4, 5	3	3 4	
4	6, 3, 9	4	49, 43, 46	4	6, 3, 9	Į,	5 3	
5	1	5	51	5	1,3	(5 4	
6	1	6	61	6	1,4	0	9 4	
5 1 means 51%		5 1 me	ans 51%	5 1 me	ans 51%	5 1 m	eans 51%	

23. Ms. Keller brought a giant teddy bear to class to be used as a class mascot. The students decided to give it a name. The table shows how many students voted for which name.

Names for the Class Bear				
Name	Tally			
Ted	₩			
Bruno				
Barry	₩ ₩			

Ms. Keller forgot to write down the number of students who voted for the name "Bruno," but it was twice as many as those who voted for the name "Ted." Which name won and by how many votes?

24. Veronica loves to read. She decided to keep track of how many pages a day she read for 20 days. She used a stem and leaf plot to organize the data.

Pages Per Day					
Stem	Leaf				
1	0, 7, 7, 8				
2	0, 7, 7, 8 0, 6				
4	2, 5, 5, 7 4, 4, 5, 7, 8 0, 1, 3, 8, 9				
5	4, 4, 5, 7, 8				
6	0, 1, 3, 8, 9				
	•				

1|2 means 12 pages

Based on the stem and leaf plot how many days did she read 40 or more pages?

A. 0

B. 4

C. 14

D. 19

4.9.A - 4.9.B - Represent Data and Solve Problems - PS

4.9.A – 4.9B – Represent Data and Solve Problems Problem Set: 5

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		., 5			
1.	2.	3.	4.	5.	6.
57	В	D	D	В	29
7.	8.	9.	10.	11.	12.
D	В	D	А	А	В
13.	14.	15.	16.	17.	18.
D	А	58	С	79	С
19.	20.	21.	22.	23.	24.
D	В	D	А	Barry won by 2 votes	С
				2 0000	
25.	26.	27.	28.	29.	30.
С	А	С	С	В	72

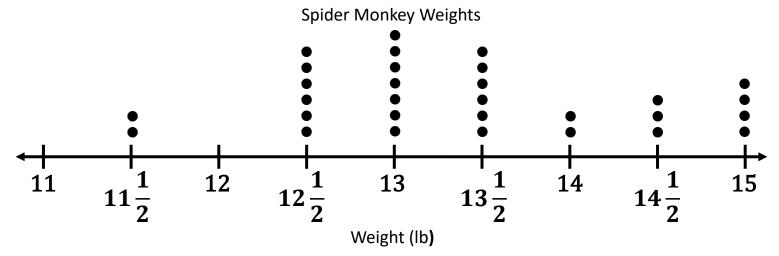
25. The list shows the ages of the first 12 people who came to see the new Batman movie on the first day it opened.

26, 30, 19, 21, 24, 26, 18, 31, 27, 21, 17, 29

Α. С. **Ages of Movie Goers** Stem Leaf 1|8 means 18 years old Β. **Ages of Movie Goers** D. Stem Leaf 1|8 means 18 years Old

Which plot represents the data in the list?

26. A zoo has 30 spider Monkeys. The dot plot shows their weights.

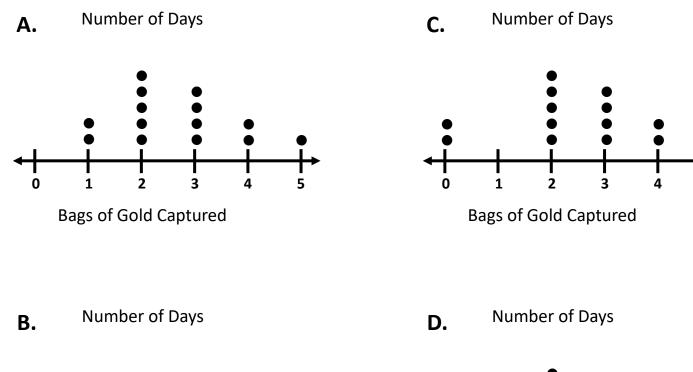


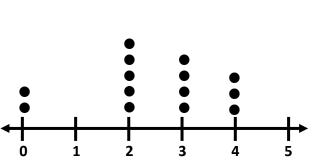
Which frequency table represents the same data as the dot plot?

_	Weight (lb)	11	11 ½	12	12 ½	13	13 ½	14	14 ½	15
Α.	Tally		I		₩ 1	₩	₩ 1	I		
						-				
В.	Weight (lb)	11	11 ½	12	12 ½	13	13 ½	14	14 ½	15
р.	Tally	=	I		₩ 1	₩	₩1	I		
C.	Weight (lb)	11	11 ½	12	12 ½	13	13 ½	14	14 ½	15
L.	Tally		I		₩	₩	₩1			
_	Weight (lb)	11	11 ½	12	12 ½	13	13 ½	14	14 ½	15
D.	Tally		I		₩	₩	₩	I		

27. The table shows the number of bags of gold that Peg-Leg Pete the Pirate has captured per day in the last two weeks. Which dot plot represents the data in the table?

Bags of gold captured	Number of Days
0	
1	
2	ŧ
3	
4	
5	





Bags of Gold Captured

4.9.A – 4.9.B – Represent Data and Solve Problems - PS

1

2

Bags of Gold Captured

3

4

5

28. Fashionable Fiona has eight dresses with polka dots. She counted the dots on each dress and summarized the information in the stem and leaf plot below.

Number of Polka Dots				
Stem				
8	2 6 0 4 6 3 7 5			
9	046			
10	37			
12	5			
·				
9 6 means 96 polka dots				

What is the total number of polka dots on Fiona's dresses?

A. 72

B. 423

C. 783

D. 504

29. The stem and leaf plot shows the finishing time in seconds for the racers in the most recent 50-yard Wiener Dog Race at the fair.

Wiener Dog Times				
Stem	Leaf			
6	8			
7	2 5			
8	03368			
9	8 2 5 0 3 3 6 8 2 4 8			
·				
7 5 means 7.5 seconds				

What is the difference in time between the slowest wiener dog's time and the winning wiener dog's time?

- A. 2.4 seconds
- B. 3 seconds
- C. 30 seconds
- D. 0.7 seconds

30. Larry the Lizard Rancher is counting the lizards on his lizard ranch.

Type of Lizard	Tally	Frequency	
Green Lizard		34	
Spiny Lizard	₩₩₩₩	21	
Alligator Lizard	₩₩₩	17	

Lizards at the Lizard Ranch

It got dark before Larry had a chance to count the green lizards, but he knows he has twice as many green lizards as alligator lizards. How many lizards does Larry have in all?