	_
4.9.A – 4.9B –	-
Problem Set:	1
Note: Some parts of	th
	_

В

Α

В

Α

Unit: 4th – Measurement & Data Analysis **Represent Data and Solve Problems** hese materials are taken directly from released STAAR tests Copyright © 2015-2021. Texas Education Agency. All Rights Reserved. Used by Permission.

1	2	3	4	5
57	В	D	D	В

D

Α

Barry won by

2 votes

В

В

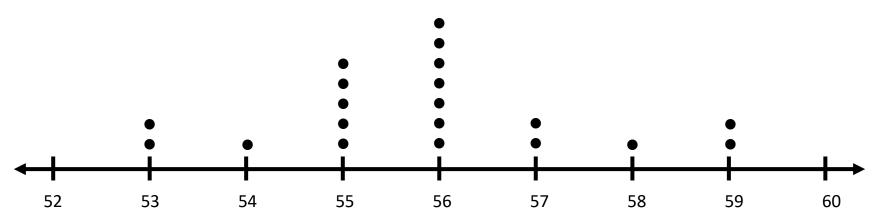
1. The table shows the heights in inches of the students in Mr. Garrison's class.

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.
- 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

C.

Farada Calar				
Favorit	Favorite Color			
Color	Number of Students			
Red	#			
Yellow				
Blue	#			
Purple				
Green	#			

В.

D.

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

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

Which dot plot displays the same data?

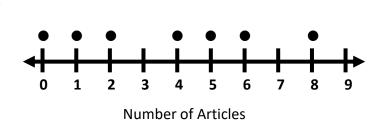
Articles Written by Reporters

A.

Number of Articles

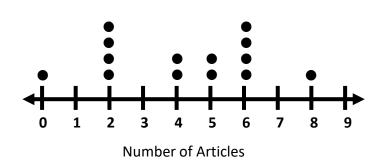
Articles Written by Reporters

C.



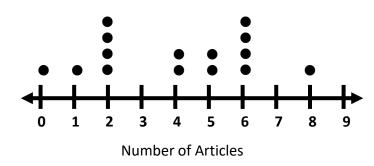
Articles Written by Reporters

В.



Articles Written by Reporters

D.



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

Movie Theater Visitors

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

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	8 25 248 03368 055
2	2 4 8
3	03368
4	055

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.

Favorite School Lunches

Lunch Choice	Tally	Frequency
Pizza	#####	32
Hamburger		
Chicken	# #	13

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?

Unit: 4th – Measurement & Data Analysis

4.9B - Represent Data and Solve Problems

4.9.A - 4.9b
Problem Set
Note: Some parts o

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В

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Α

Α

В

В

Α

Barry won by

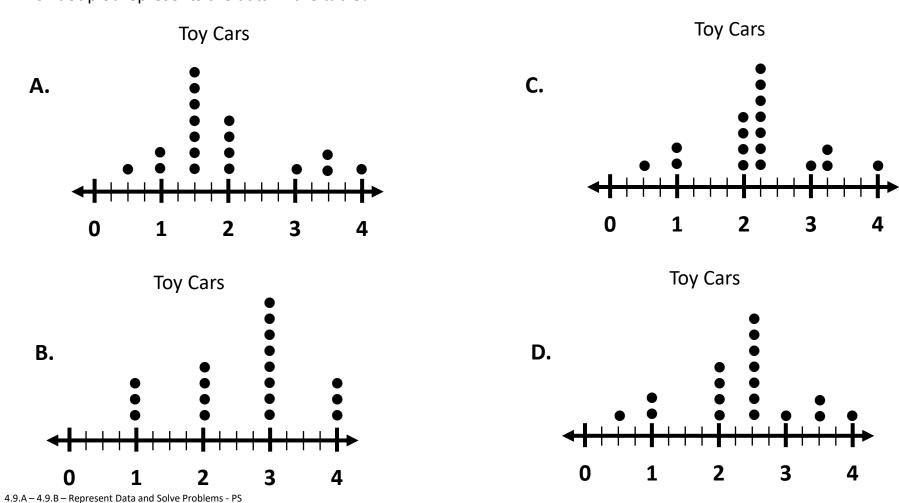
2 votes

В

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

Α	•	В.		(С.	
Baseball Ru	uns Scored	Baseball R	uns Scored	Baseball	Runs Scored	Bas
Stem	Leaf	Stem	Leaf	Stem	Leaf	_
6	1	6	145	6	1 4 5	
9	2	7	2	7	2	
10	0	8	4	8	4	
6	5	9	2	9	2	
7	2	10	0	10		
6	4	C11 maga	20.01 11.100	C11 mag	ana C1 muna	1
8	4	6 1 mear	ns 61 runs	6 1 mea	nns 61 runs	J

D.

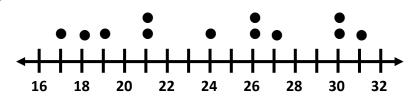
6|1 means 61 runs

6|1 means 61 runs

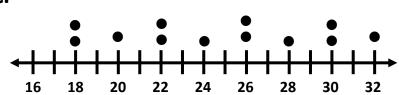
9. The list shows the lengths of twelve strings in inches.

Which plot represents the data in the list?

A.



C.



В.

String	Lengths
Juling	Lenguis

Stem	Leaf
1	789
2	1146679
3	1

1|8 means 18 inches

D.

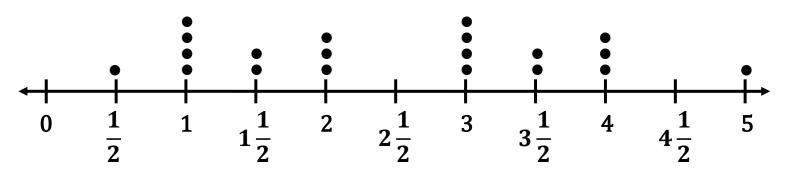
String Lengths

Stem	Leaf
1	789
2	1146679
3	01

1 | 8 means 18 inches

10. A 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.

Fudge Sold on Saturday



Weight (lb)

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

_	Weight (lb)	1/2	1	1 ½	2	2 ½	3	3 ½	4	4 1/2	5
A.	Tally										
_	Weight (lb)	1	4	2	3	0	4	2	3	0	1
В.	Tally										1
•	Weight (lb)	1/2	1	1 ½	2	2 ½	3	3 ½	4	4 ½	5
C.	Tally					1				1	1
				•				•		1	1
	Weight (lb)	1/2	1	1 ½	2	2 ½	3	3 ½	4	4 ½	5
D.	Tally				III						

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	Leaf
14	022
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
4	0, 2, 2, 3, 6, 7 2, 3, 5, 5, 7, 7, 7, 9, 9 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

Unit: 4th – Measurement & Data Analysis 4.9.A – 4.9B – Represent Data and Solve Problems

Problem Set: 3 Note: Some parts of these materials are taken directly from released STAAR tests Copyright @ 2015-2021. Texas Education Agency. All Rights Reserved. Used by Permission.

В

В

Α

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Α

В

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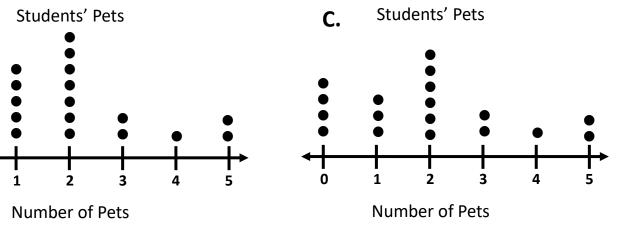
Barry won by

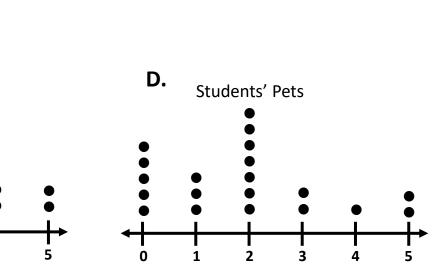
2 votes

В

В

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

Student's Pets

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

Number of Pets

Students' Pets

В.

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	48 068 55 7
9	068
10	5 5
11	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

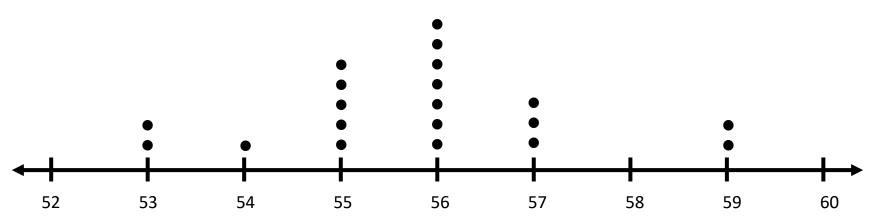
15. The table shows the heights in inches of the students in Mr. Gurley's class.

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
- 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?

Α.

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

C.

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

Β.

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

D.

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

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	Pet Tally	
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

Unit: 4th - Measurement & Data Analysis

D

D

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

Α

Α

Α

Barry won by

2 votes

В

В

Problem Set: 4 Note: Some parts of these material	s are taken directly from released STA	AAR tests Copyright © 2015-2021. Tex	as Education Agency. All Rights Rese	rved. Used by Permission.
1	2	3	4	5

1	2	3	4	5	
57	В	D	D	В	

D

Α

В

В

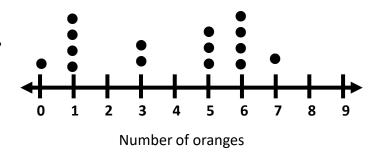
Α

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

Which dot plot displays the same data?

Oranges eaten by players

A.

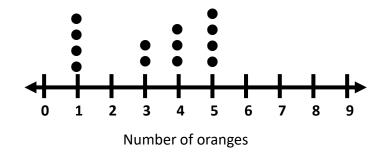


C. Oranges eaten by players

Number of oranges

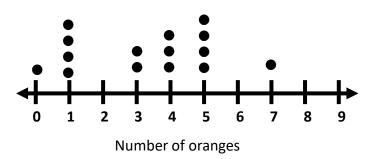
Oranges eaten by players

В.



Oranges eaten by players

D.



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. 11,78,83,87,87,90,91,92,92,93,97,101,107,111,112,113,115,133,138
- B. 11,22,39,46,54,55,59,68,78,83,87,87,90,91,111,112,113,115,133,138
- C. 54,55,59,68,78,83,87,87,90,91,111,112,113,115,133,138,212,232,252
- 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 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

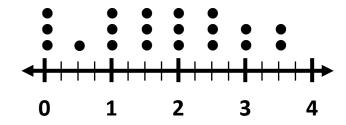
Which dot plot represents the data in the table?

Α.

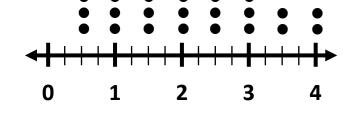
Inch Worms

C

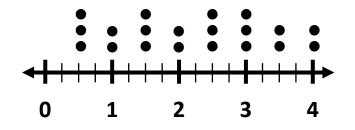
Inch Worms

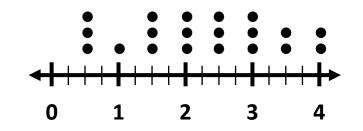






D. Inch Worms





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

Field Goal	Percentage
------------	------------

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

Α	A. B.		C.		D.		
Field Goal	Percentage	Field Goal	Percentage	Field Goal	Field Goal Percentage Field Goal Pe		Percentage
Stem	Leaf	Stem	Leaf	Stem	Leaf	Stem	Leaf
1	2	1	12	1	2, 5, 6	1	5, 6
2		2		2		2	1
3	5	3	35	3	4, 5	3	4
4	6, 3, 9	4	49, 43, 46	4	6, 3, 9	5	3
5	1	5	51	5	1,3	6	4
6	1	6	61	6	1,4	9	4

5|1 means 51%

5|1 means 51%

5|1 means 51%

5|1 means 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					
3						
4	2, 5, 5, 7					
5	4, 4, 5, 7, 8					
6	2, 5, 5, 7 4, 4, 5, 7, 8 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



1	2	3	4	5		
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Problem Set: 5						
I.9.A – 4.9B – Represent Data and Solve Problems						
Unit: 4''' – Measureme	nt & Data Analysis					

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1	2	3	4	5
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В

Α

D

Α

Α

Barry won by

2 votes

В

В

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.

Which plot represents the data in the list?

C. Ages of Movie Goers

	-
Stem	Leaf
1	789
2	1146679
3	0 1

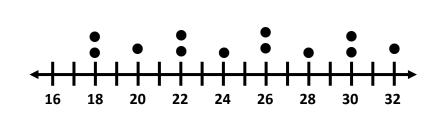
1|8 means 18 years old

B. Ages of Movie Goers

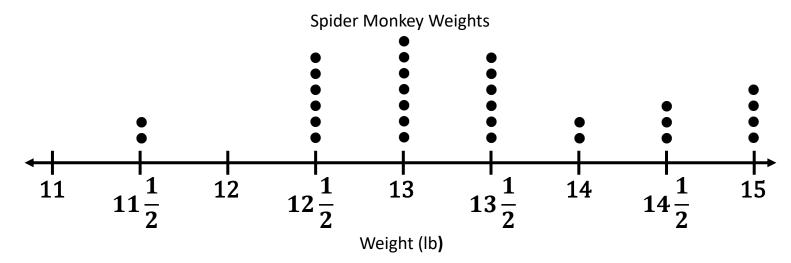
Leaf
789
1146679
1

1|8 means 18 years Old

D.



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



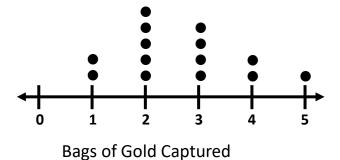
Which frequency table represents the same data as the dot plot?

	Weight (lb)	11	11 ½	12	12 ½	13	13 ½	14	14 ½	15
A.	Tally		=		 ≢	#	-	=		
D	Weight (lb)	11	11 ½	12	12 ½	13	13 ½	14	14 ½	15
В.	Tally	=	=		# -	#	# -	=	 	
•	Weight (lb)	11	11 ½	12	12 ½	13	13 ½	14	14 ½	15
C.	Tally		=	=	#	##	#	=		
_	Weight (lb)	11	11 ½	12	12 ½	13	13 ½	14	14 ½	15
D.	Tally		=		#	##	#			

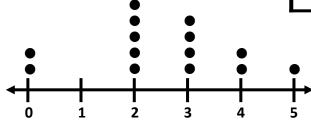
27. The table shows the number of bags of gold that Peg-Leg Pete the Pirate has captured per day in the last two weeks. Which dot plot represents the data in the table?

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

Δ Number of Days

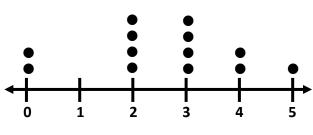


C. Number of Days



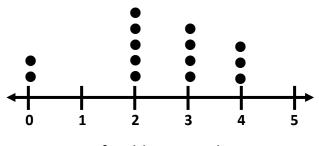
Bags of Gold Captured

B. Number of Days



Bags of Gold Captured

D. Number of Days



Bags of Gold Captured

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
9	0 4 6
10	3 7
12	2 6 0 4 6 3 7 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	
6	8 25 03368 248
7	2 5
8	03368
9	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.

Lizards at the Lizard Ranch

Type of Lizard	Tally	Frequency
Green Lizard		
Spiny Lizard	####	21
Alligator Lizard	###	17

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?