3.8.A - 3.8.B - Data Analysis – Problem Set: 1

1. C

2. B

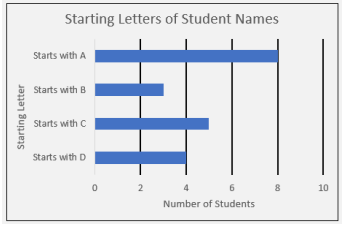
3. B

4. A

5. B

6.

Starting letter	Frequency
Starts with A	8
Starts with B	3
Starts with C	5
Starts with D	4



7. B

8. D

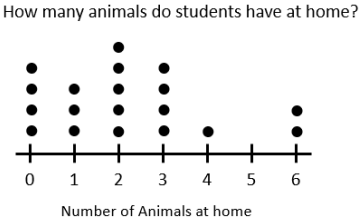
9. D

10. A

11. D

12.

Number of pets/Animals	Frequency
0	4
1	3
2	6
3	4
4	1
5	0
6	2



13. 32

14. A

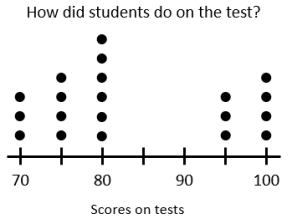
15. B

16. D

17. D

18.

Scores on Test	Frequency
70	3
75	4
80	6
85	0
90	0
95	3
100	4



19. 105

20. D

21. D

22. A

23. C

24.

Cards Drawn	Frequency
Aces (1's)	3
2's	2
3's	1
4's	3
5's	0
6's	2
7's	2
8's	1
9's	3
10's	3

Which card or cards did Michael draw most frequently?

Aces, 4's, 9's and 10's were drawn 3 times

Did Michael draw more odd or even numbered cards, or did he draw an equal number of odd and even cards?

He drew more even cards

25. 60

26. B

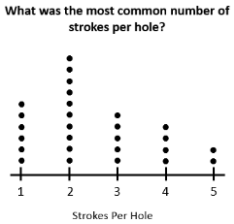
27. C

28. C

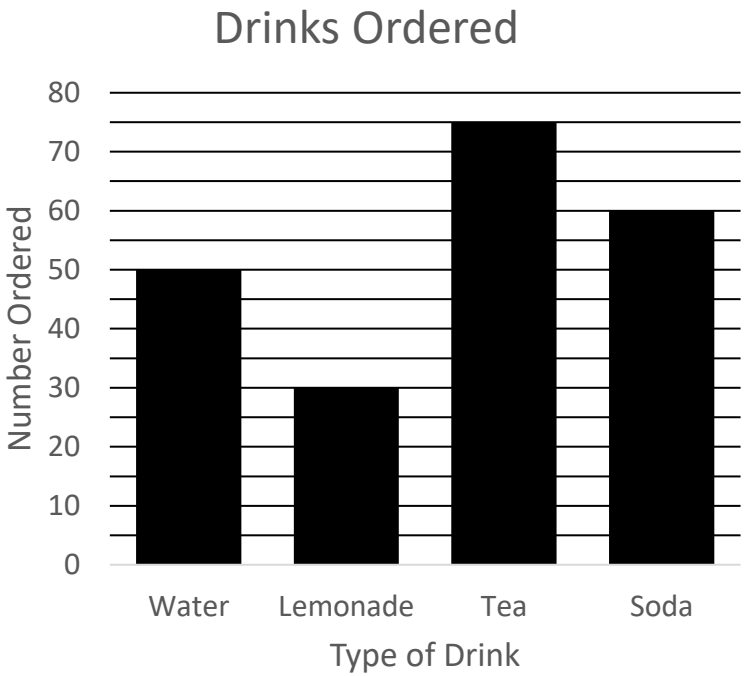
29. A

30.

Number of strokes per hole	Frequency
1	3
2	2
3	1
4	3
5	0



1. The bar graph shows the number of each different type of drink that was ordered in a restaurant one day.



What was the total number of drinks ordered?

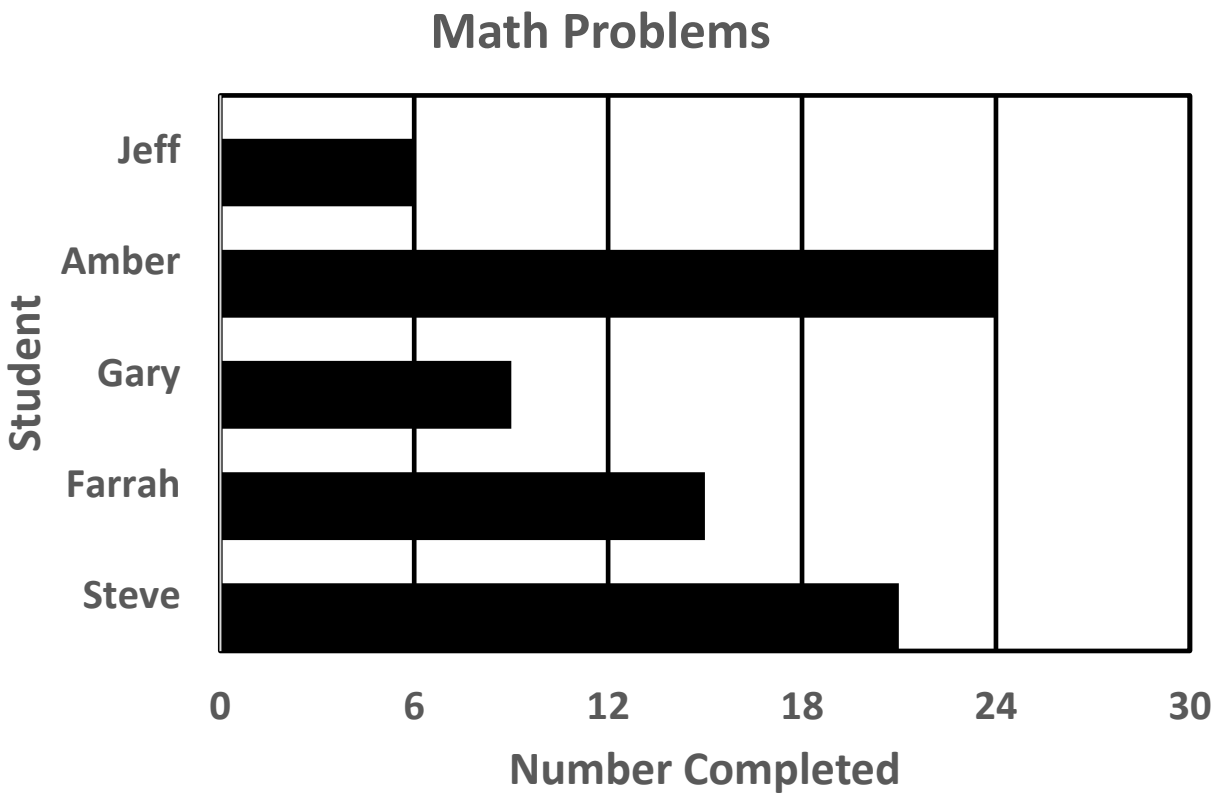
A. 205

B. 75

C. 215

D. 210

2. The bar graph shows the number of math problems each of five students completed during math class. Which list matches the data in the bar graph?



A

Jeff: 6
Amber: 24
Gary: 8
Farrah: 14
Steve: 20

B

Jeff: 6
Amber: 24
Gary: 9
Farrah: 15
Steve: 21

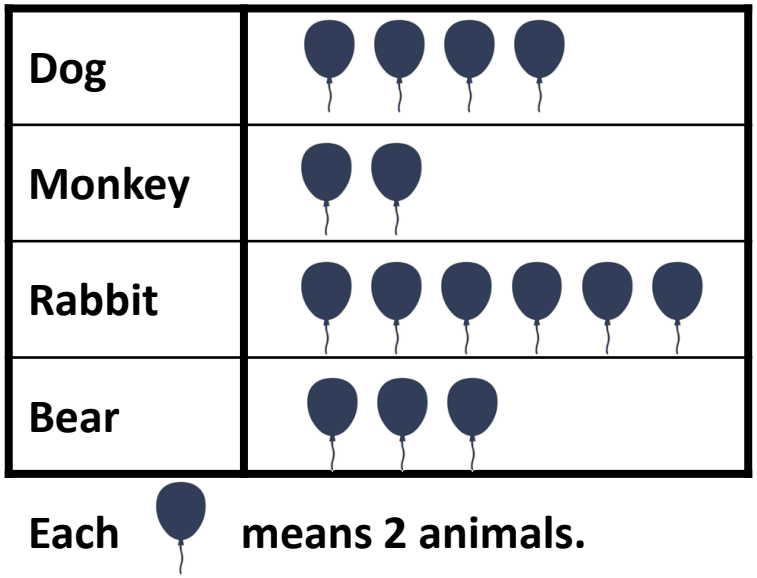
C

Jeff: 9
Amber: 24
Gary: 6
Farrah: 15
Steve: 21

D

Jeff: 6
Amber: 21
Gary: 9
Farrah: 15
Steve: 24

3. The pictograph shows the number of each type of balloon animal a clown made on Tuesday. Which table correctly represents the data?



A

Animal	Number of Balloons
Dog	4
Monkey	2
Rabbit	5
Bear	3

B

Animal	Number of Balloons
Dog	8
Monkey	4
Rabbit	12
Bear	6

C

Animal	Number of Balloons
Dog	4
Monkey	2
Rabbit	6
Bear	3

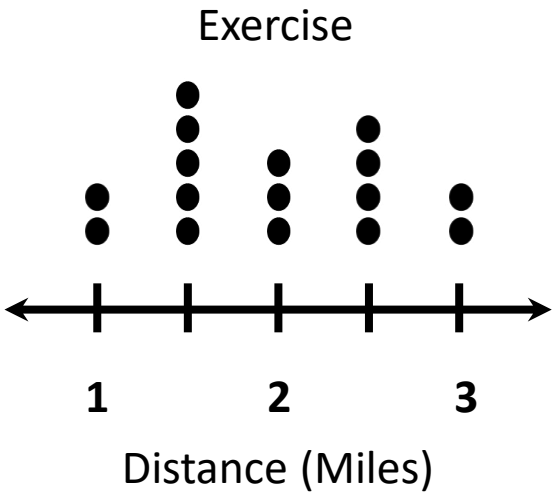
D

Animal	Number of Balloons
Dog	8
Monkey	4
Rabbit	10
Bear	6

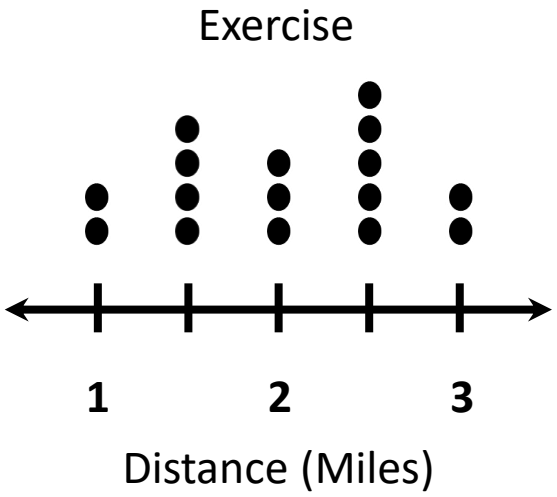
4. Alberto ran for exercise every day for 16 days. The table shows how many days he ran each distance. Which dot plot represents these data?

Distance (Miles)	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Number of Days	||	𝍸 ||	|||	𝍸 |||	||

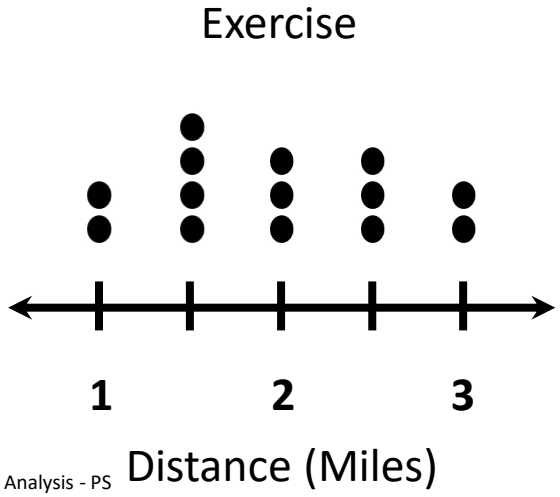
A.



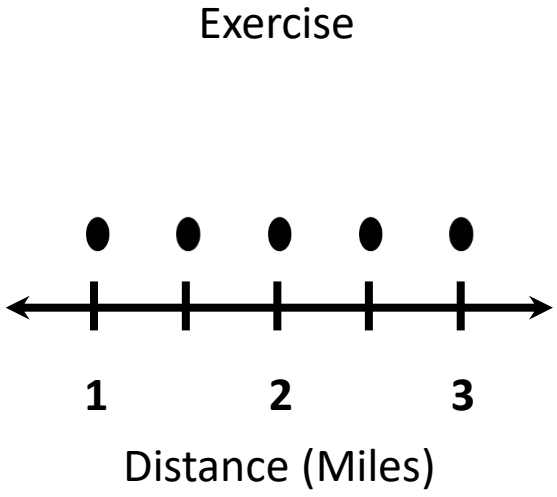
B.



C.



D.



5. A school keeps boxes of paper of different colors in a room. The table shows how many boxes of each color are in the room. Which answer choice does NOT represent the information in the table?

Boxes of Paper

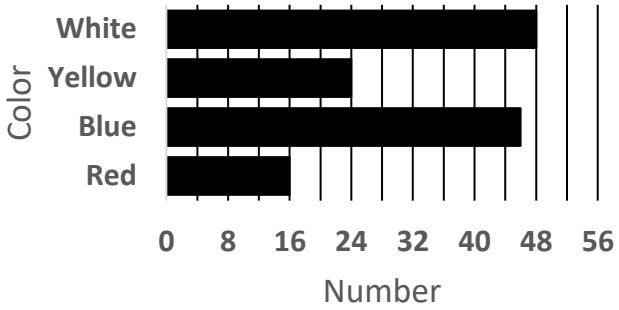
Color	Number
White	48
Yellow	24
Blue	42
Red	18

A.

Boxes of Paper

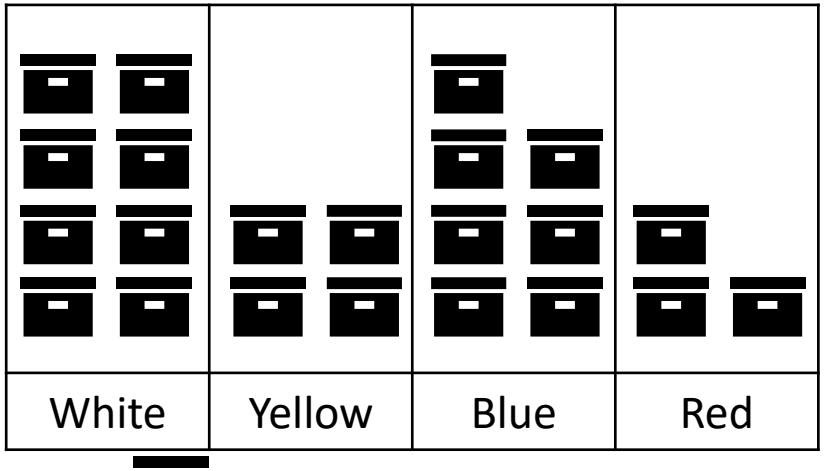
Color	Number
White	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 |||
Yellow	𝍸 𝍸 𝍸 𝍸 |||
Blue	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 ||
Red	𝍸 𝍸 𝍸 |||

B.



C.

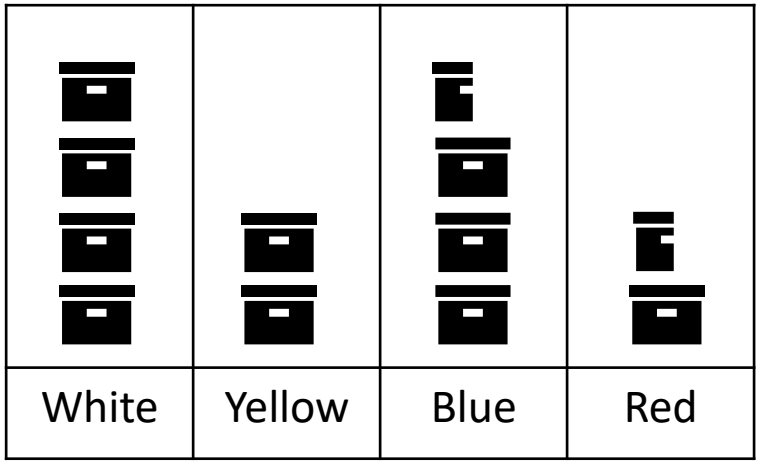
Boxes of Paper



Each means 6 boxes.

D

Boxes of Paper



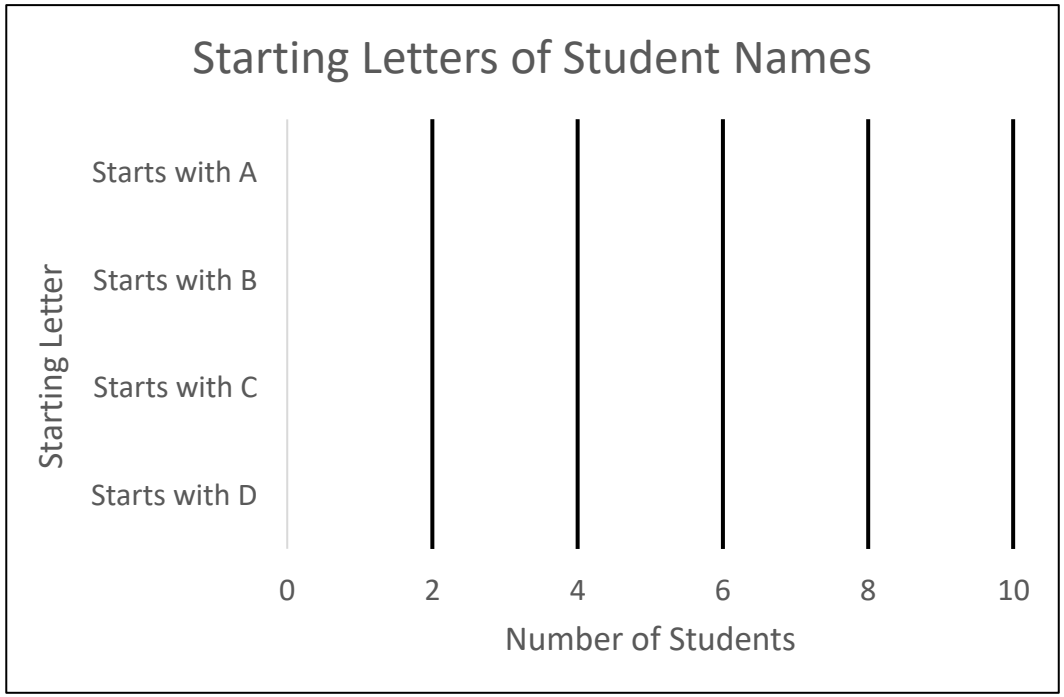
Each means 12 boxes.

6. Ms. Keller has 20 students in her class. The chart shows their names.

Brayden	Carson	Dominic	Colin	Devin
Bailey	Alexis	Arianna	Brooklyn	Christina
Amber	Cody	Ana	Damian	Aaliyah
Alan	Angel	Cheyenne	Alicia	Derek

Ms. Keller noticed that all her student's names started with A, B, C or D. Complete the frequency chart to show how many names start with each letter. Then complete the bar chart to show the same information.

Starting letter	Frequency
Starts with A	
Starts with B	
Starts with C	
Starts with D	



3.8.A - 3.8.B - Data Analysis – Problem Set: 2

1. C

2. B

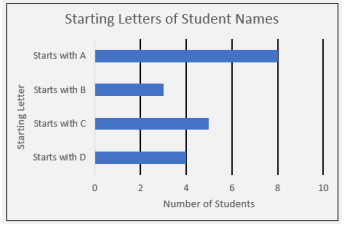
3. B

4. A

5. B

6.

Starting letter	Frequency
Starts with A	8
Starts with B	3
Starts with C	5
Starts with D	4



7. B

8. D

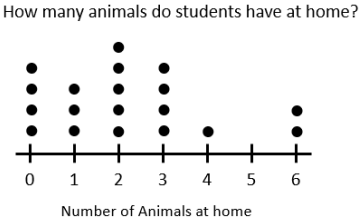
9. D

10. A

11. D

12.

Number of pets/Animals	Frequency
0	4
1	3
2	6
3	4
4	1
5	0
6	2



13. 32

14. A

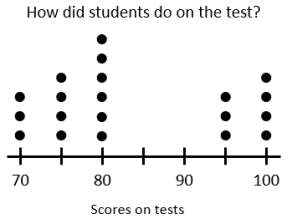
15. B

16. D

17. D

18.

Scores on Test	Frequency
70	3
75	4
80	6
85	0
90	0
95	3
100	4



19. 105

20. D

21. D

22. A

23. C

24.

Cards Drawn	Frequency
Aces (1's)	3
2's	2
3's	1
4's	3
5's	0
6's	2
7's	2
8's	1
9's	3
10's	3

Which card or cards did Michael draw most frequently?

Aces, 4's, 9's and 10's were drawn 3 times

Did Michael draw more odd or even numbered cards, or did he draw an equal number of odd and even cards?

He drew more even cards

25. 60

26. B

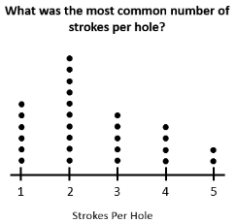
27. C

28. C

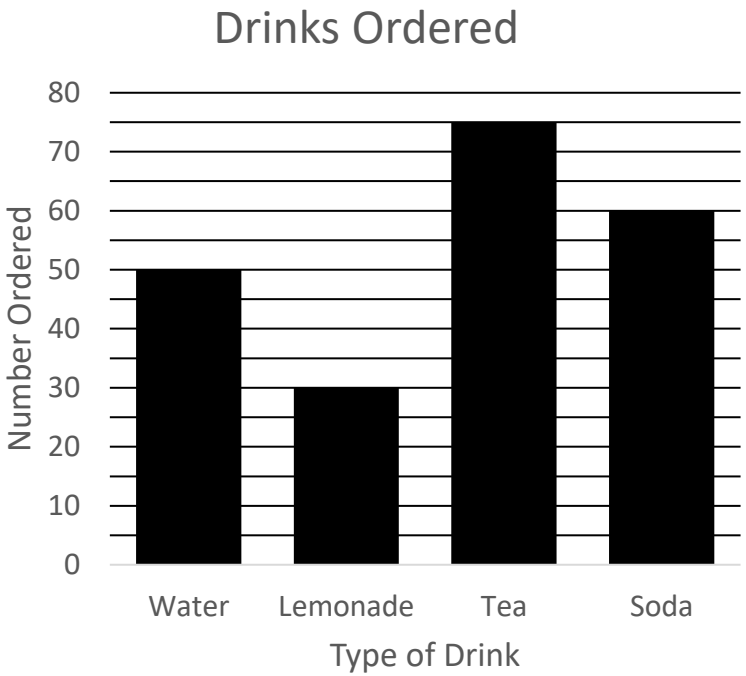
29. A

30.

Number of strokes per hole	Frequency
1	3
2	2
3	1
4	3
5	0



7. The bar graph shows the number of each different type of drink that was ordered in a restaurant one day.



Not counting water, what was the total number of drinks ordered?

A. 205

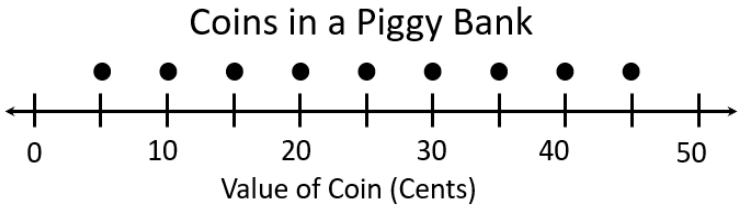
B. 165

C. 105

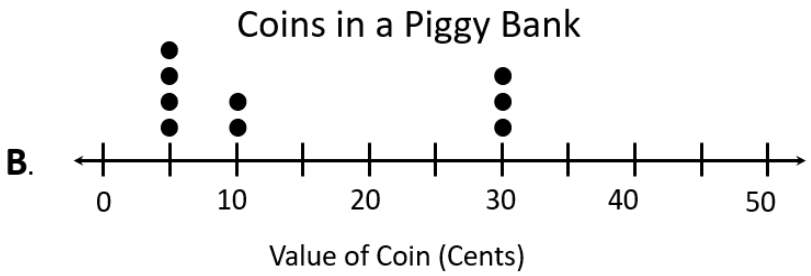
D. 135

8. The picture shows the coins that are in a piggy bank. Which dot plot represents the value of the cents of each coin in the piggy bank?

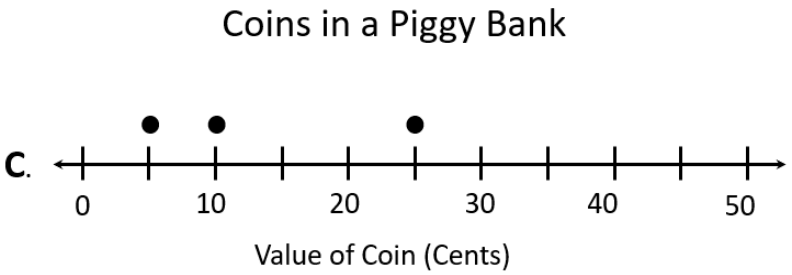
A.



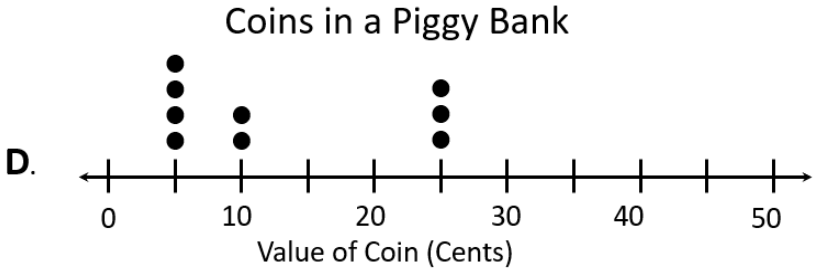
B.



C.



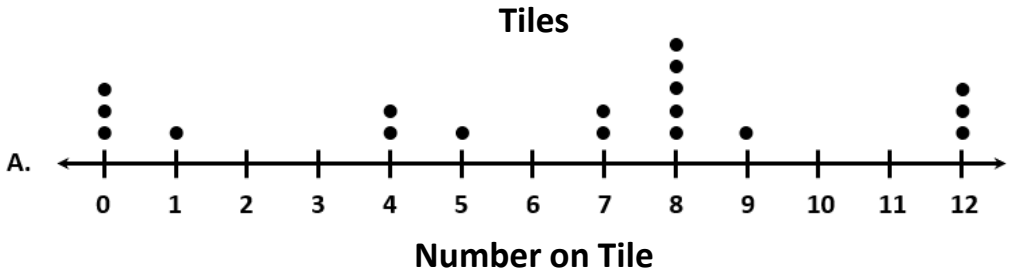
D.



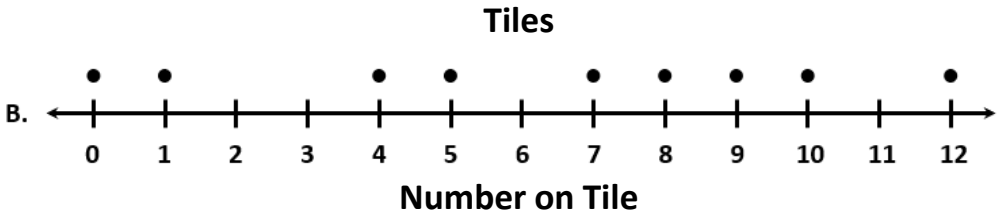
9. Merlin had a bag of tiles. Each tile was labeled with a number. Merlin pulled one tile out of the bag and recorded the number on that tile. He repeated this 18 times. The numbers on the tiles Merlin pulled are shown in the list. Which dot plot represents the numbers on the tiles Merlin pulled out of the bag?

8, 7, 12, 1, 8, 9, 12, 0, 7, 8, 10, 4, 5, 8, 12,4, 0, 8

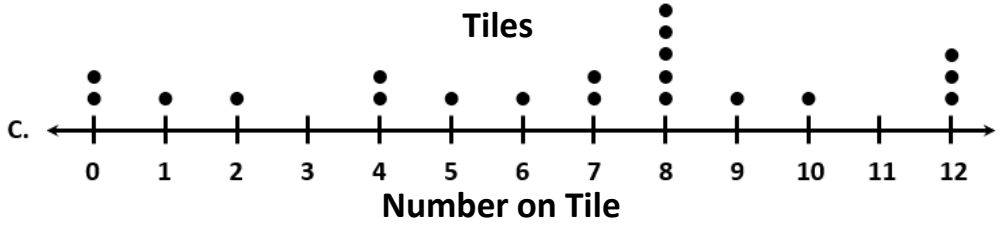
A.



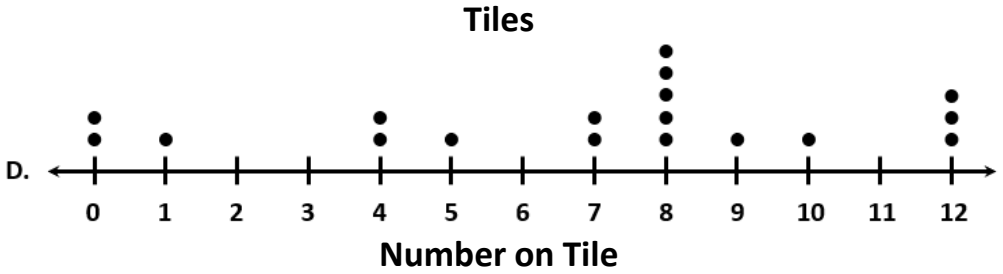
B.



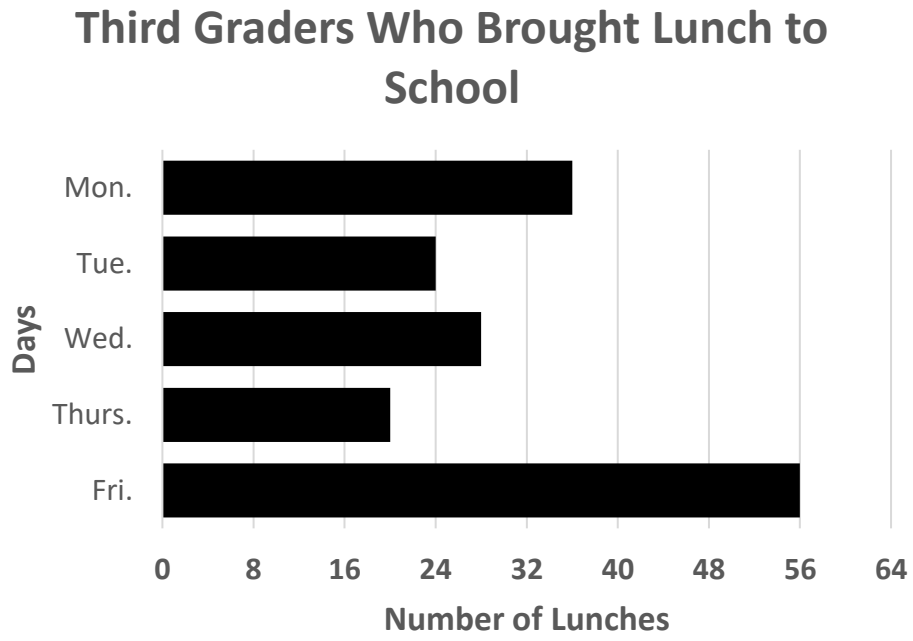
C.



D.



10. The graph below shows the number of third graders who brought their lunch to school different days of the week. Which table best represents the data in the graph?



A.

Third Graders Who Brought Lunch to School

Day	Number of Lunches
Monday	36
Tuesday	24
Wednesday	28
Thursday	20
Friday	56

B.

Third Graders Who Brought Lunch to School

Day	Number of Lunches
Monday	32
Tuesday	24
Wednesday	24
Thursday	16
Friday	56

C.

Third Graders Who Brought Lunch to School

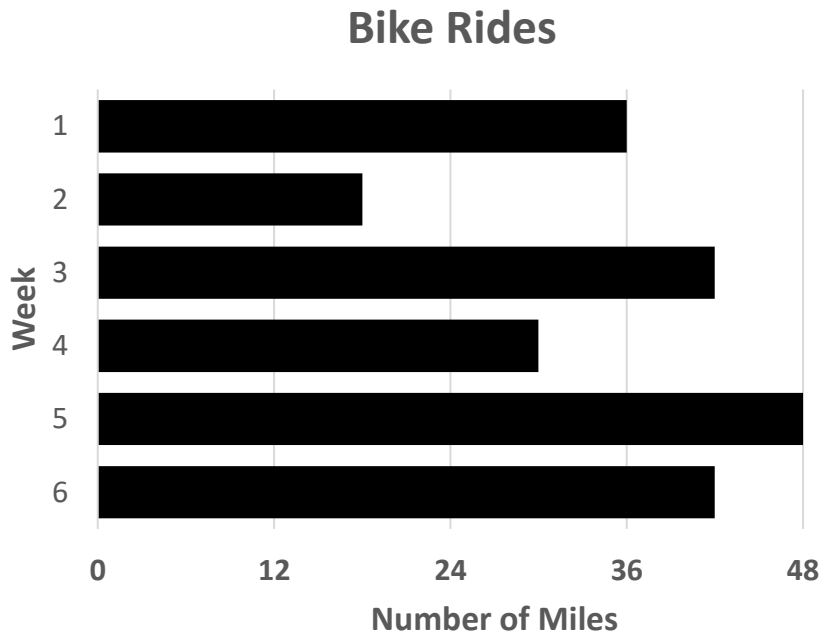
Day	Number of Lunches
Monday	40
Tuesday	24
Wednesday	32
Thursday	24
Friday	56

D.

Third Graders Who Brought Lunch to School

Day	Number of Lunches
Monday	34
Tuesday	24
Wednesday	26
Thursday	18
Friday	56

11. The graph below shows the number of miles Lincoln rode his bike during six weeks. Which table best represents the data in the graph?



A.

Bike Rides

Week	Number of Miles
1	36
2	14
3	38
4	26
5	48
6	38

B.

Bike Rides

Week	Number of Miles
1	36
2	24
3	48
4	36
5	48
6	48

C.

Bike Rides

Week	Number of Miles
1	36
2	18
3	42
4	30
5	42
6	48

D.

Bike Rides

Week	Number of Miles
1	36
2	18
3	42
4	30
5	48
6	42

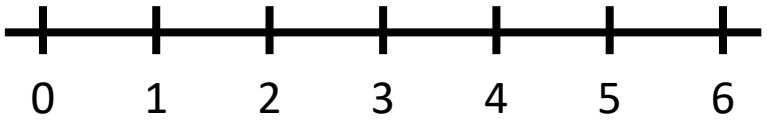
12. Ms. Keller asked the students in her class how many pets or other animals they had at home. The chart shows their answers.

Brayden - 0	Carson - 1	Dominic - 2	Colin - 2	Devin - 6
Bailey - 1	Alexis - 1	Arianna - 0	Brooklyn - 4	Christina - 0
Amber - 2	Cody - 3	Ana - 2	Damian - 6	Aaliyah - 2
Alan - 3	Angel - 3	Cheyenne - 3	Alicia - 0	Derek - 2

Complete the frequency chart to show how many animals the students have at home and then complete the dot plot with the same information.

Number of Pets/animals	Frequency
0	
1	
2	
3	
4	
5	
6	

How many animals do students have at home?



Number of Animals at home

3.8.A - 3.8.B - Data Analysis – Problem Set: 3

1. C

2. B

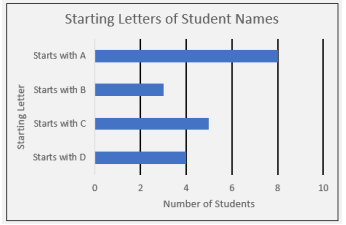
3. B

4. A

5. B

6.

Starting letter	Frequency
Starts with A	8
Starts with B	3
Starts with C	5
Starts with D	4



7. B

8. D

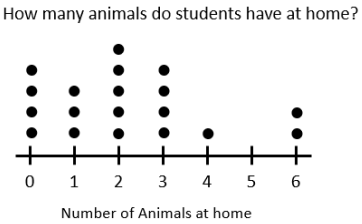
9. D

10. A

11. D

12.

Number of pets/Animals	Frequency
0	4
1	3
2	6
3	4
4	1
5	0
6	2



13. 32

14. A

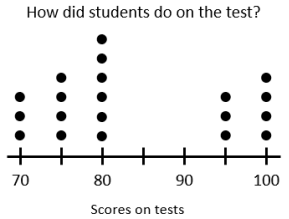
15. B

16. D

17. D

18.

Scores on Test	Frequency
70	3
75	4
80	6
85	0
90	0
95	3
100	4



19. 105

20. D

21. D

22. A

23. C

24.

Cards Drawn	Frequency
Aces (1's)	3
2's	2
3's	1
4's	3
5's	0
6's	2
7's	2
8's	1
9's	3
10's	3

Which card or cards did Michael draw most frequently?

Aces, 4's, 9's and 10's were drawn 3 times

Did Michael draw more odd or even numbered cards, or did he draw an equal number of odd and even cards?

He drew more even cards

25. 60

26. B

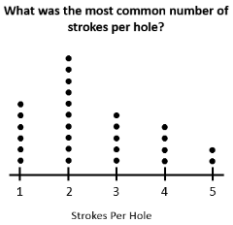
27. C

28. C

29. A

30.

Number of strokes per hole	Frequency
1	3
2	2
3	1
4	3
5	0



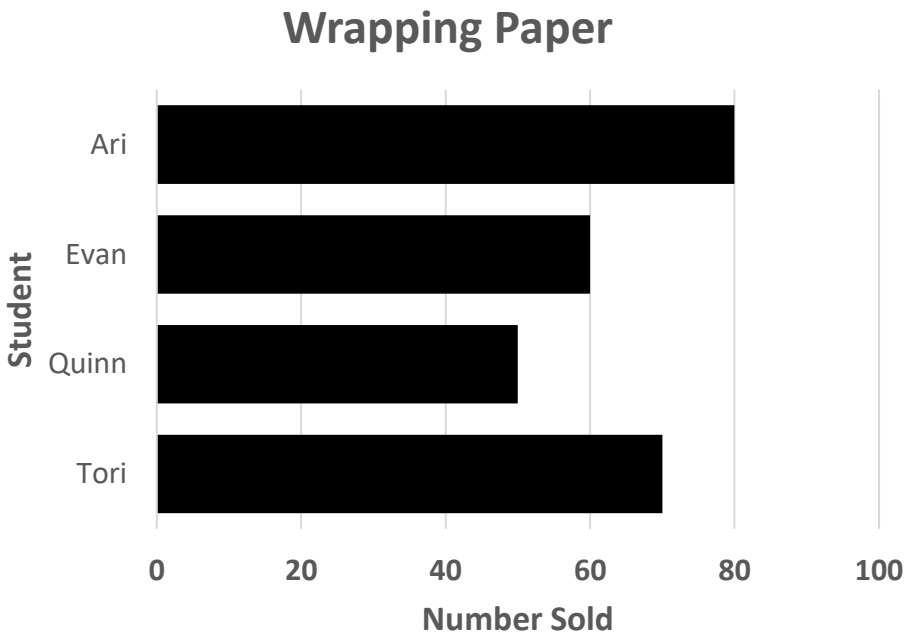
13. The frequency table shows the number of hot dogs eaten by each participant in a hot dog eating contest.

Points Scored

Player	Tally
Stephen	𝍸 𝍸 ||||
Alfred	||||
Kenjiana	𝍸 𝍸 ||
Pete	𝍸 |||
Erica	𝍸 𝍸 ||
Wesley	𝍸 |
Hayley	𝍸 𝍸

What is the combined number of hot dogs eaten by Stephen, Alfred, Pete, and Wesley?

14. The graph shows the number of rolls of wrapping paper sold by 4 students. Which table represents the information in the graph?



A.

Wrapping Paper

Student	Number Sold
Ari	80
Evan	60
Quinn	50
Tori	70

B.

Wrapping Paper

Student	Number Sold
Ari	80
Evan	60
Quinn	40
Tori	60

C.

Wrapping Paper

Student	Number Sold
Ari	80
Evan	60
Quinn	45
Tori	65

D.

Wrapping Paper

Student	Number Sold
Ari	80
Evan	60
Quinn	60
Tori	80

15. The list shows the number of ribbons of each color that a school ordered for a science fair.

- 12 blue
- 18 red
- 36 green
- 60 purple

Which pictograph best represents the information on the list?

A.

Science Fair Ribbons

Blue	
Red	
Green	
Purple	
Each means 4 ribbons.	

B.

Science Fair Ribbons

Blue	
Red	
Green	
Purple	
Each means 12 ribbons.	

C.

Science Fair Ribbons

Blue	
Red	
Green	
Purple	
Each means 6 ribbons.	

D.

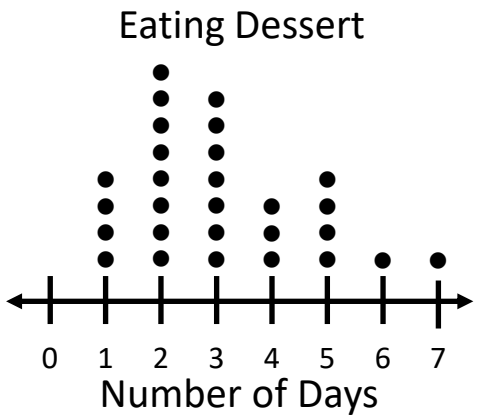
Science Fair Ribbons

Blue	
Red	
Green	
Purple	
Each means 9 ribbons.	

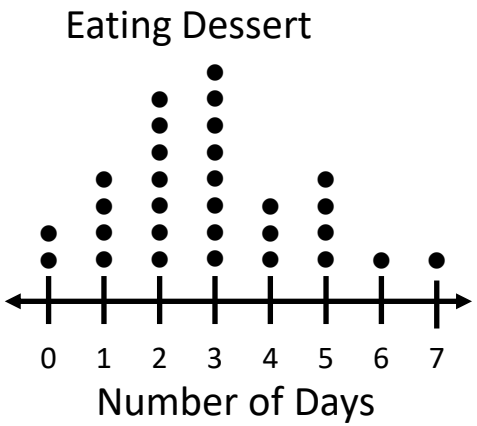
16. The frequency table shows the results of a survey about how many days per week some families eat dessert. Which dot plot represents the data in the table?

Number of Days	Frequency
0	𝍸
1	𝍸
2	𝍸 𝍸
3	𝍸 𝍸
4	𝍸
5	𝍸
6	𝍸
7	𝍸

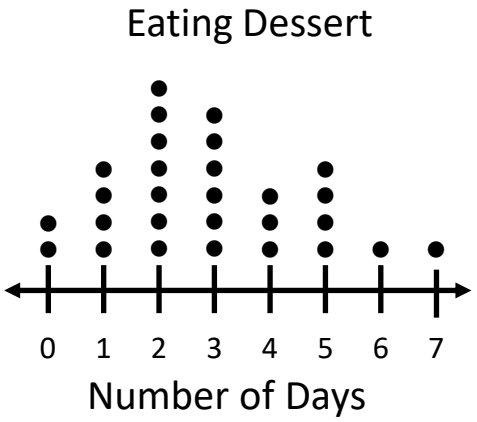
A.



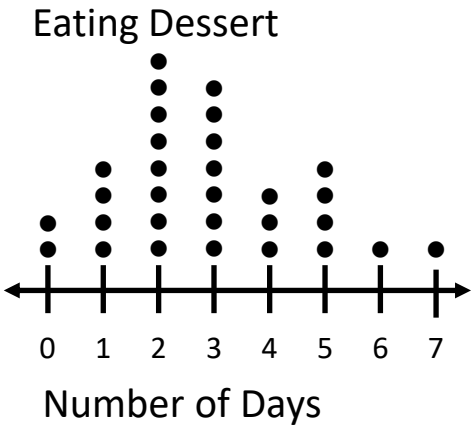
C.



B.



D.



17. The pictograph shows the number of ice cream cones that Isabella sold on different days of the week. Which table correctly represents the data?

Saturday	
Sunday	
Monday	
Tuesday	

Each **means 5 ice cream cones.**

A

Day	Number of Cones
Saturday	6
Sunday	7
Monday	4
Tuesday	3

B

Day	Number of Cones
Saturday	7
Sunday	6
Monday	4
Tuesday	3

C

Day	Number of Cones
Saturday	12
Sunday	14
Monday	8
Tuesday	6

D

Day	Number of Cones
Saturday	30
Sunday	35
Monday	20
Tuesday	15

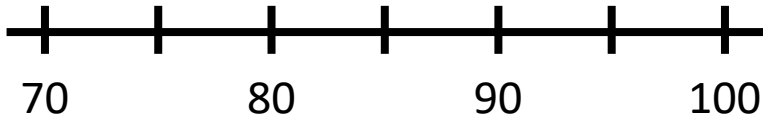
18. Ms. Keller gave a test Friday. The chart shows the score that each student made.

Brayden - 70	Carson - 80	Dominic - 95	Colin - 80	Devin - 100
Bailey - 75	Alexis - 70	Arianna - 80	Brooklyn - 100	Christina - 75
Amber - 75	Cody - 80	Ana - 70	Damian - 100	Aaliyah - 95
Alan – 80	Angel - 80	Cheyenne - 95	Alicia - 100	Derek - 75

Complete the frequency chart to show how many students made each different score. Then complete the dot plot to show the same information.

Scores on test	Frequency
70	
75	
80	
85	
90	
95	
100	

How did students do on the test?



Scores on tests

3.8.A - 3.8.B - Data Analysis – Problem Set: 4

1. C

2. B

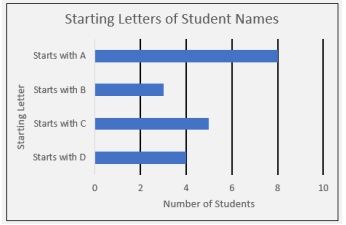
3. B

4. A

5. B

6.

Starting letter	Frequency
Starts with A	8
Starts with B	3
Starts with C	5
Starts with D	4



7. B

8. D

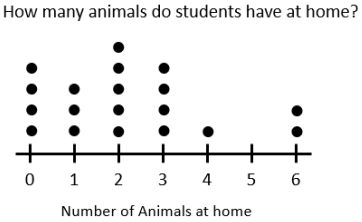
9. D

10. A

11. D

12.

Number of pets/Animals	Frequency
0	4
1	3
2	6
3	4
4	1
5	0
6	2



13. 32

14. A

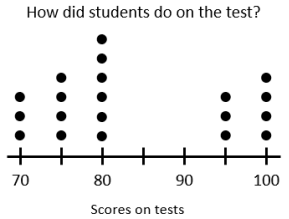
15. B

16. D

17. D

18.

Scores on Test	Frequency
70	3
75	4
80	6
85	0
90	0
95	3
100	4



19. 105

20. D

21. D

22. A

23. C

24.

Cards Drawn	Frequency
Aces (1's)	3
2's	2
3's	1
4's	3
5's	0
6's	2
7's	2
8's	1
9's	3
10's	3

Which card or cards did Michael draw most frequently?

Aces, 4's, 9's and 10's were drawn 3 times

Did Michael draw more odd or even numbered cards, or did he draw an equal number of odd and even cards?

He drew more even cards

25. 60

26. B

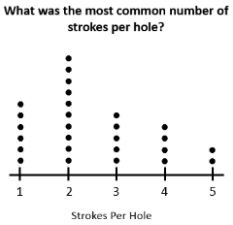
27. C

28. C

29. A

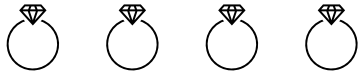
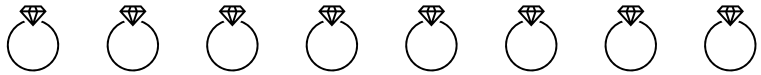
30.

Number of strokes per hole	Frequency
1	3
2	2
3	1
4	3
5	0



19. The graph shows the number of rings Mrs. Adams sold during six weeks at her jewelry store.

Rings Sold

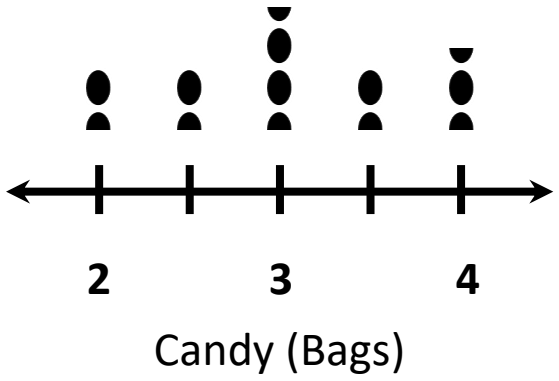
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Each means 6 rings sold.	

What is the total number of rings Mrs. Adams sold during weeks 4,5, and 6?

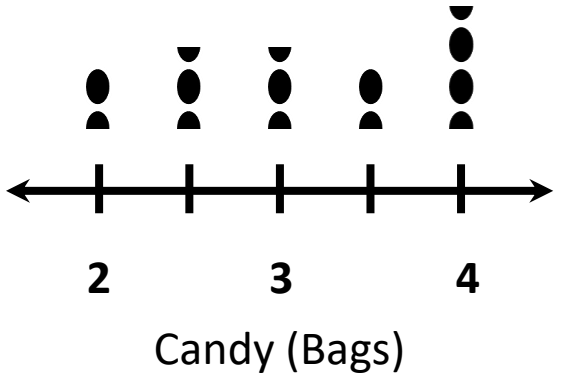
20. Carlotta the Cavity Queen eats way too much candy. The table shows how many bags of candy she ate for 20 days. Which dot plot represents this data correctly?

Candy (Bags)	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Number of Days	|||	𝍸	𝍸 |	||	||||

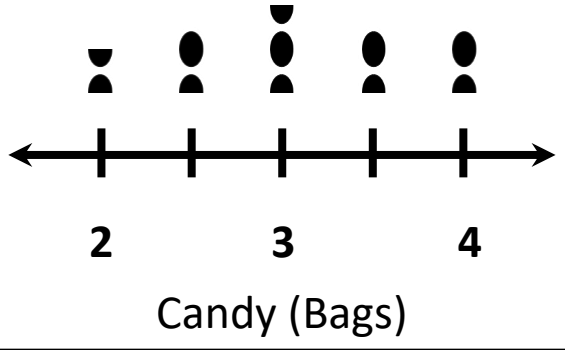
A.



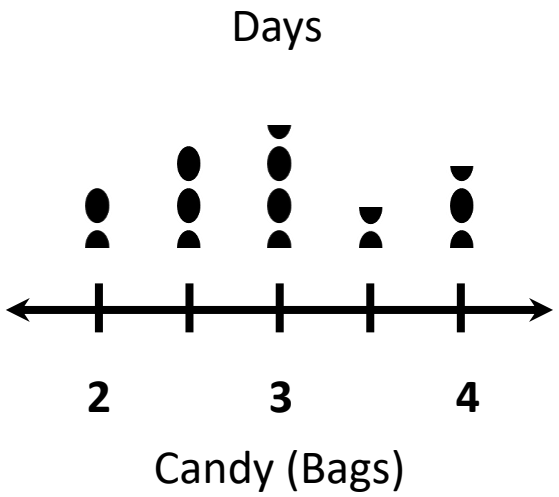
B.



C.



D.



21. A school keeps boxes of paper of different colors in a room. The table shows how many boxes of each color are in the room. Which answer choice does NOT represent the information in the table?

Boxes of Paper

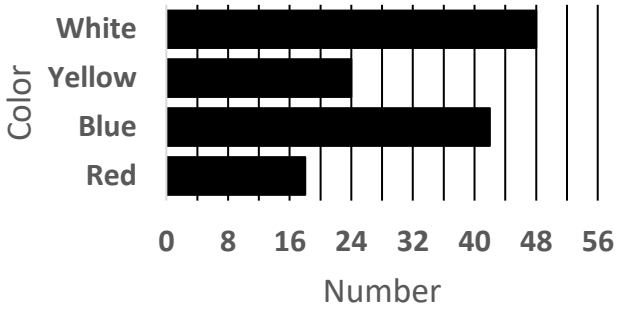
Color	Number
White	48
Yellow	24
Blue	42
Red	18

A.

Boxes of Paper

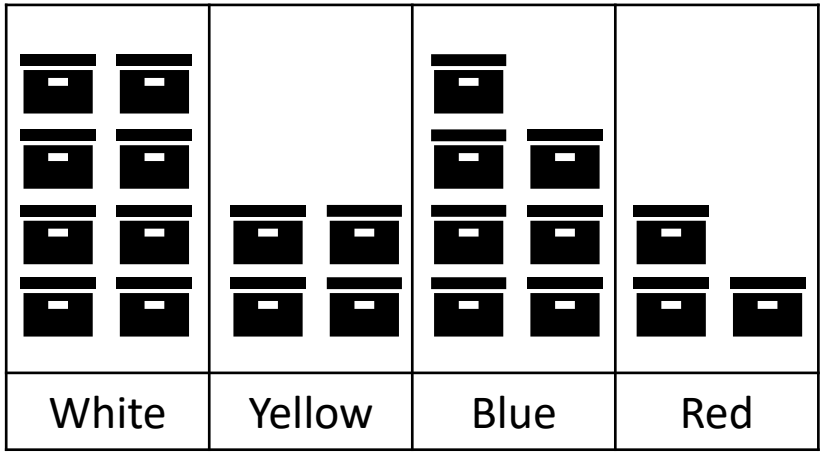
Color	Number
White	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 III
Yellow	𝍸 𝍸 𝍸 𝍸 III
Blue	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 II
Red	𝍸 𝍸 𝍸 III

B.



C.

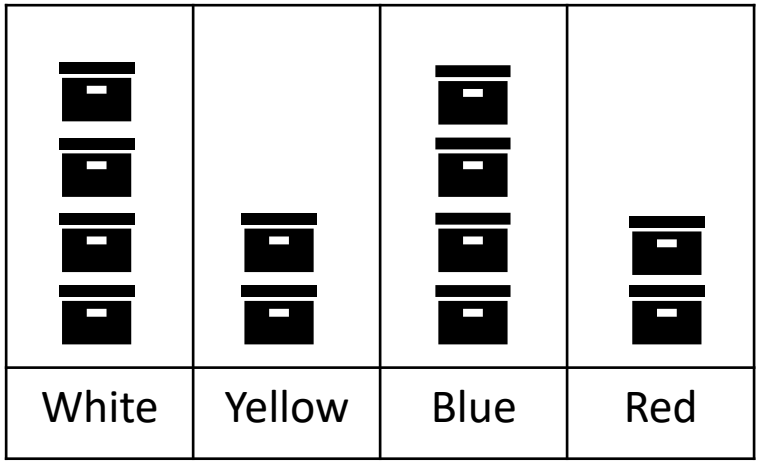
Boxes of Paper



Each means 6 boxes.

D

Boxes of Paper



Each means 12 boxes.

22. The list shows the number of ribbons of each color that a school ordered for a science fair.

- 12 blue
- 18 red
- 36 green
- 60 purple

Which pictograph best represents the information on the list?

A.

Science Fair Ribbons

Blue	
Red	
Green	
Purple	
Each means 12 ribbons.	

B.

Science Fair Ribbons

Blue	
Red	
Green	
Purple	
Each means 9 ribbons.	

C.

Science Fair Ribbons

Blue	
Red	
Green	
Purple	
Each means 4 ribbons.	

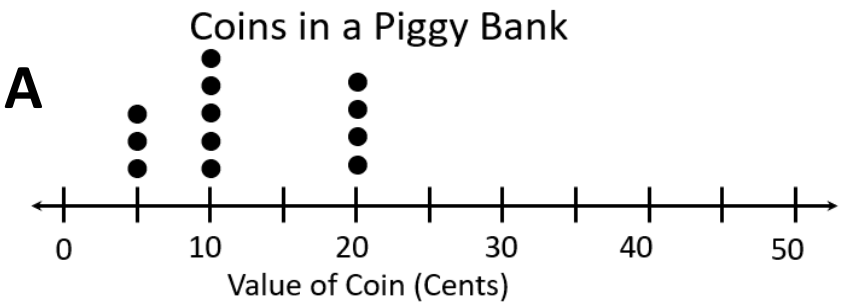
D.

Science Fair Ribbons

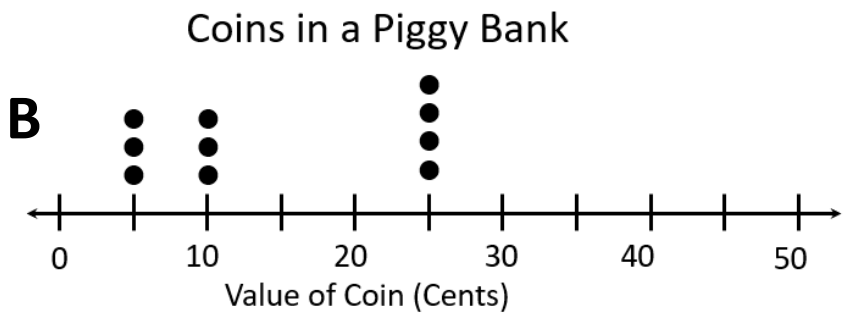
Blue	
Red	
Green	
Purple	
Each means 6 ribbons.	

23. The picture shows the coins that are in a piggy bank. Which dot plot represents the value of the cents of each coin in the piggy bank?

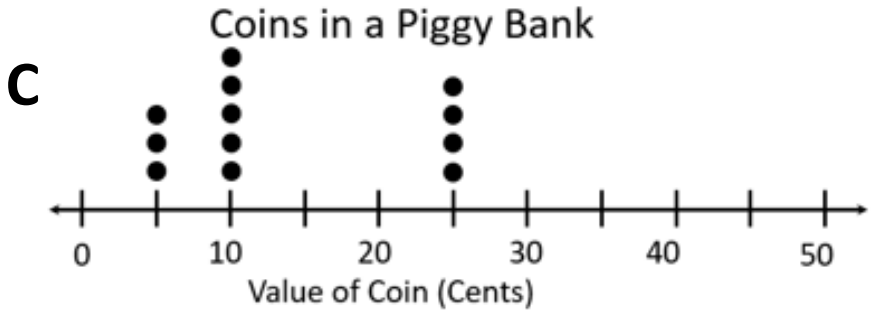
A



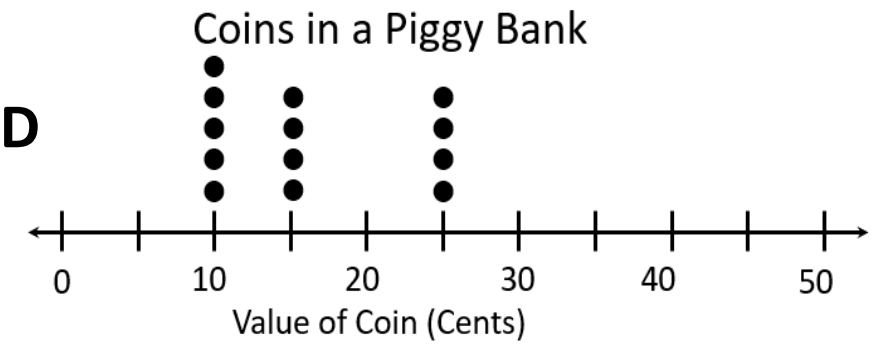
B



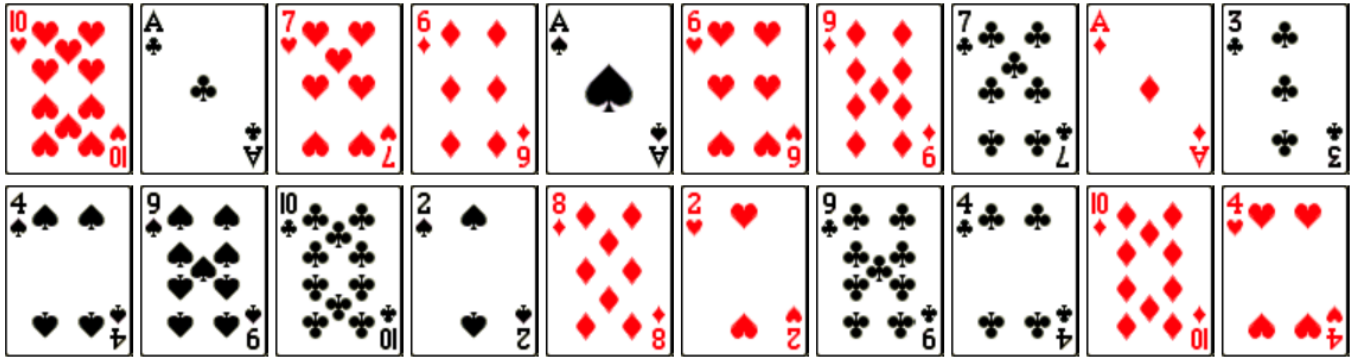
C



D



24. Michael took all the face cards out of 4 decks of cards then he shuffled them together. Then he drew the 20 cards shown below. Complete the frequency chart to show how many of each kind of card Michael drew and then answer the questions.



Cards Drawn	Frequency
Aces (1's)	
2's	
3's	
4's	
5's	
6's	
7's	
8's	
9's	
10's	

Which card or cards did Michael draw most frequently?

Did Michael draw more odd or even numbered cards, or did he draw an equal number of odd and even cards?

3.8.A - 3.8.B - Data Analysis – Problem Set: 5

1. C

2. B

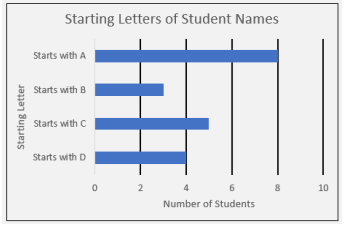
3. B

4. A

5. B

6.

Starting letter	Frequency
Starts with A	8
Starts with B	3
Starts with C	5
Starts with D	4



7. B

8. D

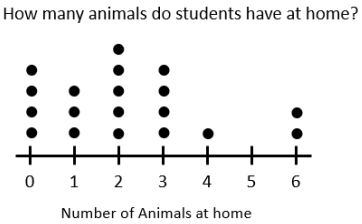
9. D

10. A

11. D

12.

Number of pets/Animals	Frequency
0	4
1	3
2	6
3	4
4	1
5	0
6	2



13. 32

14. A

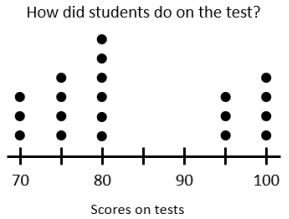
15. B

16. D

17. D

18.

Scores on Test	Frequency
70	3
75	4
80	6
85	0
90	0
95	3
100	4



19. 105

20. D

21. D

22. A

23. C

24.

Cards Drawn	Frequency
Aces (1's)	3
2's	2
3's	1
4's	3
5's	0
6's	2
7's	2
8's	1
9's	3
10's	3

Which card or cards did Michael draw most frequently?

Aces, 4's, 9's and 10's were drawn 3 times

Did Michael draw more odd or even numbered cards, or did he draw an equal number of odd and even cards?

He drew more even cards

25. 60

26. B

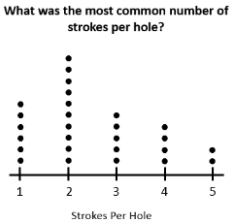
27. C

28. C

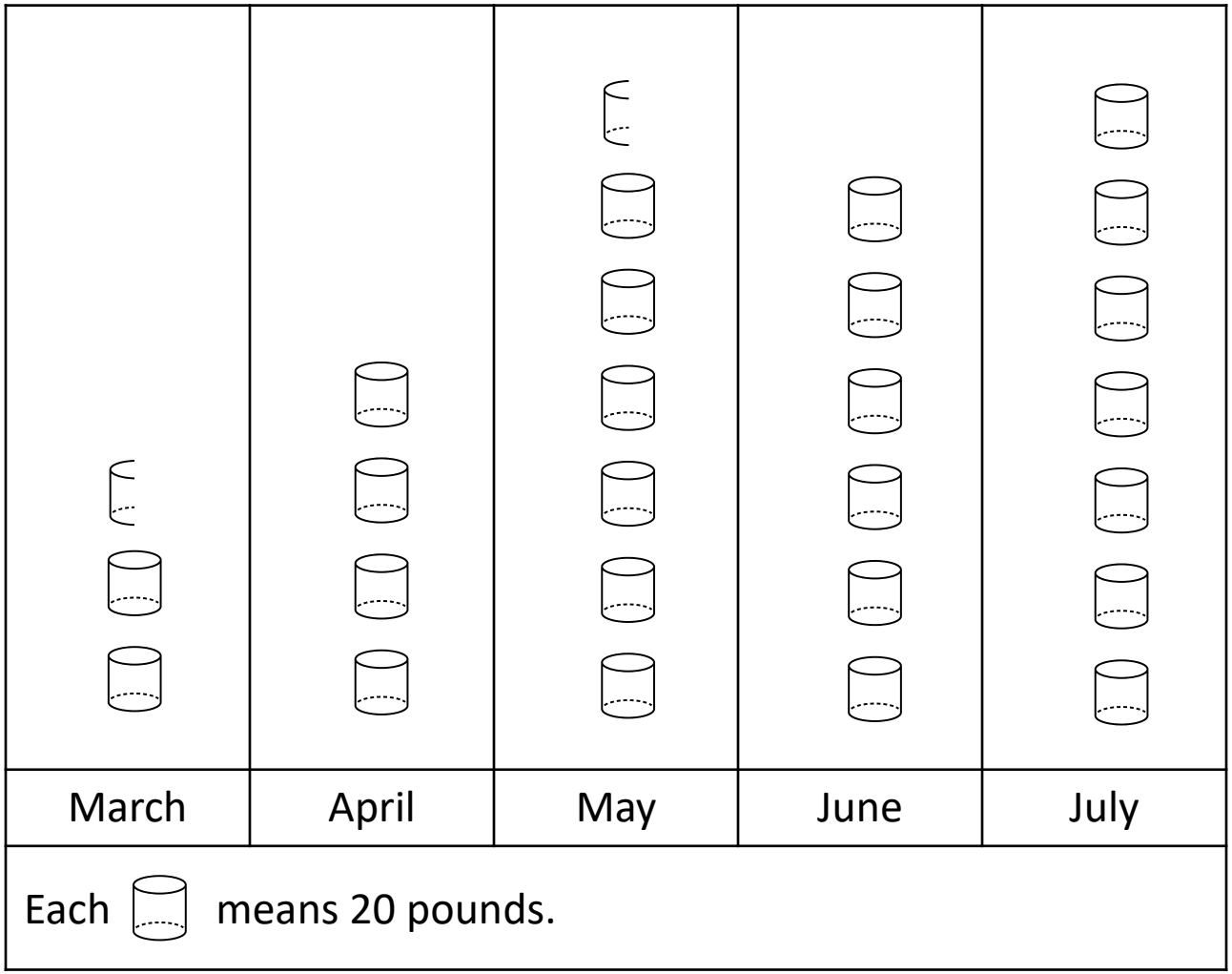
29. A

30.

Number of strokes per hole	Frequency
1	3
2	2
3	1
4	3
5	0



25. The graph shows the number of pounds of plastic the Keller family recycled for five months.



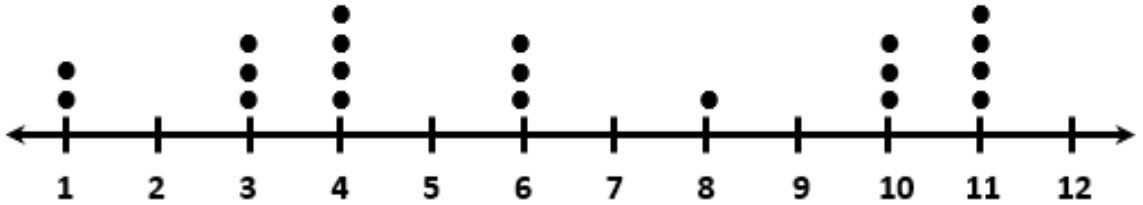
Based on the graph, how many more pounds of plastic did the family recycle in July than in April?

26. Ms. Burns has 20 students in her class. She asked her students in which month they were born and listed their birth months in the chart below. Which dot plot displays this information correctly?

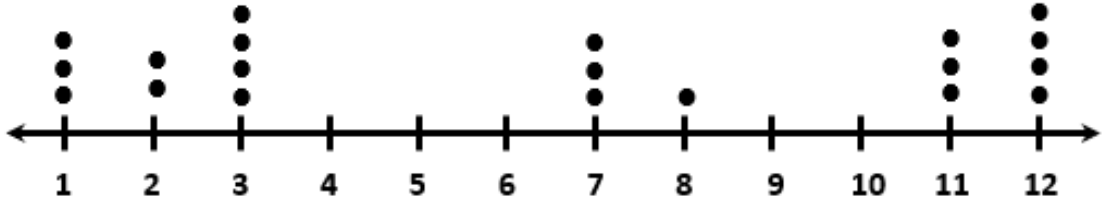
3	1	3	6	4	6	8	3	6	10	11	1	11	10	11	4	4	11	10	4

A

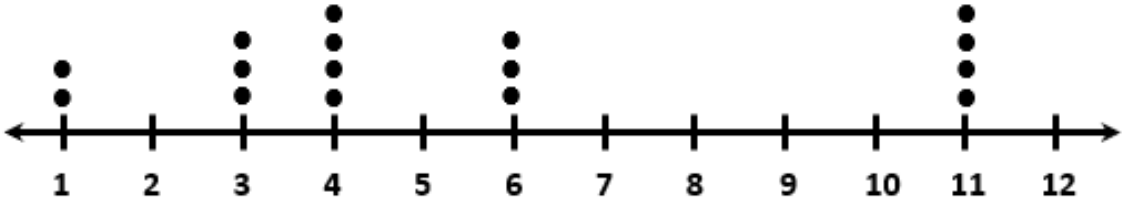
B



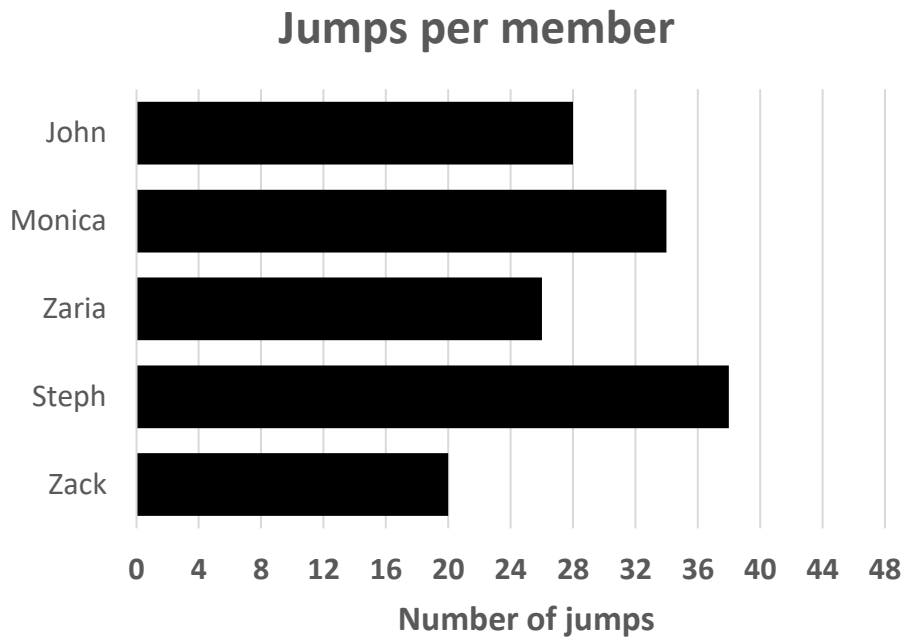
C



D



27. The graph below shows the number of jumps different members of the jump rope team can make without tripping. Which chart matches the information in the graph?



A.

Jumps per Member

Member	Jumps
John	38
Monica	36
Zaria	26
Steph	38
Zack	20

B.

Jumps per Member

Member	Jumps
John	28
Monica	34
Zaria	24
Steph	32
Zack	20

C.

Jumps per Member

Member	Jumps
John	28
Monica	34
Zaria	26
Steph	38
Zack	20

D.

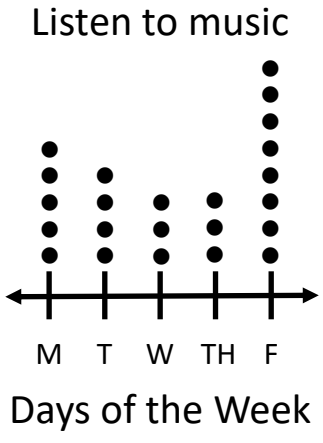
Jumps per Member

Member	Jumps
John	28
Monica	34
Zaria	26
Steph	36
Zack	22

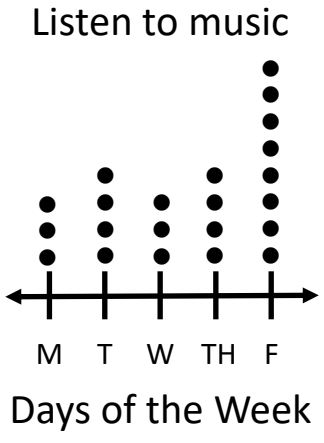
28. Students in Mr. Gerrity's class get to listen to music one day a week. They voted to decide which day it would be. The frequency table shows the results of the vote. Which dot plot shows the same information?

Number of Days	Frequency
Monday	𝍸
Tuesday	𝍸
Wednesday	𝍸
Thursday	𝍸
Friday	𝍸 𝍸

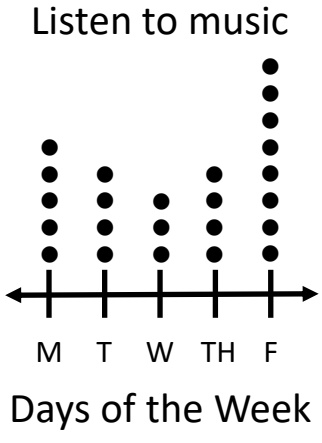
A.



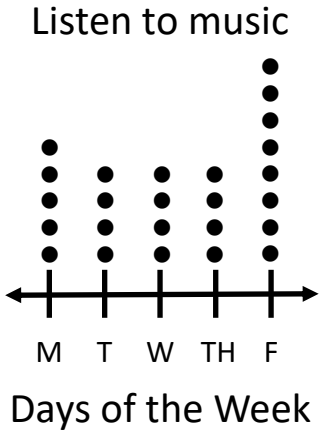
B.



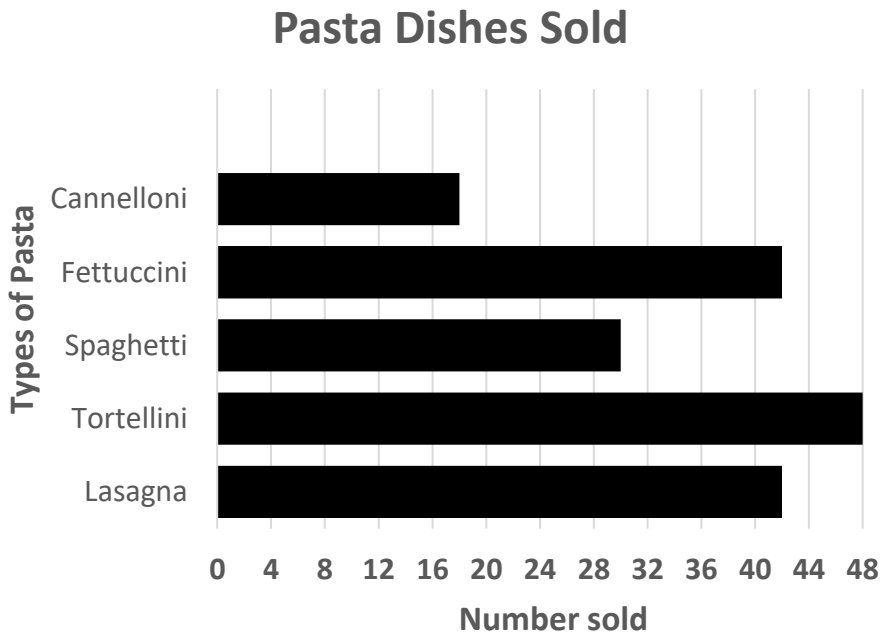
C.



D.



29. Gepetto's Italian Restaurant offers 5 different pasta dishes. The bar chart below shows how many of each dish Gepetto's sold in one week. Which table below shows the same information as the bar chart?



A.

Pasta Dishes Sold

Pasta	Number sold
Cannelloni	18
Fettuccini	42
Spaghetti	30
Tortellini	48
Lasagna	42

B.

Pasta Dishes Sold

Pasta	Number sold
Cannelloni	18
Fettuccini	42
Spaghetti	30
Tortellini	42
Lasagna	48

C.

Pasta Dishes Sold

Pasta	Number sold
Cannelloni	24
Fettuccini	42
Spaghetti	30
Tortellini	48
Lasagna	42

D.

Pasta Dishes Sold

Pasta	Number sold
Cannelloni	16
Fettuccini	40
Spaghetti	28
Tortellini	42
Lasagna	48

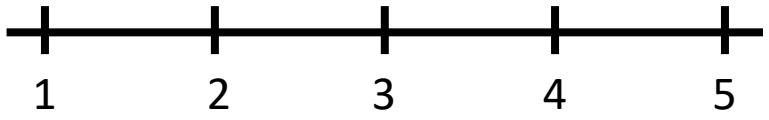
30. Jada, Josh and Jeremy played 9 holes of mini-golf. The scorecard shows how many strokes they used on each hole.

Hole number	1	2	3	4	5	6	7	8	9	Total
Jada	1	2	2	1	2	3	5	4	2	22
Josh	3	3	2	4	1	2	4	1	5	25
Jeremy	3	1	3	2	2	1	4	2	2	20

Complete the frequency chart to show the most frequent number of strokes per hole and then complete the dot plot with the same information.

Number of strokes per hole	Frequency
1	
2	
3	
4	
5	

What was the most common number of strokes per hole?



Strokes Per Hole