Unit: 5th – Measurement & Data Analysis
Lesson: 5.9.A, 5.9.B, 5.9.C – Data Analysis
Problem Set 1

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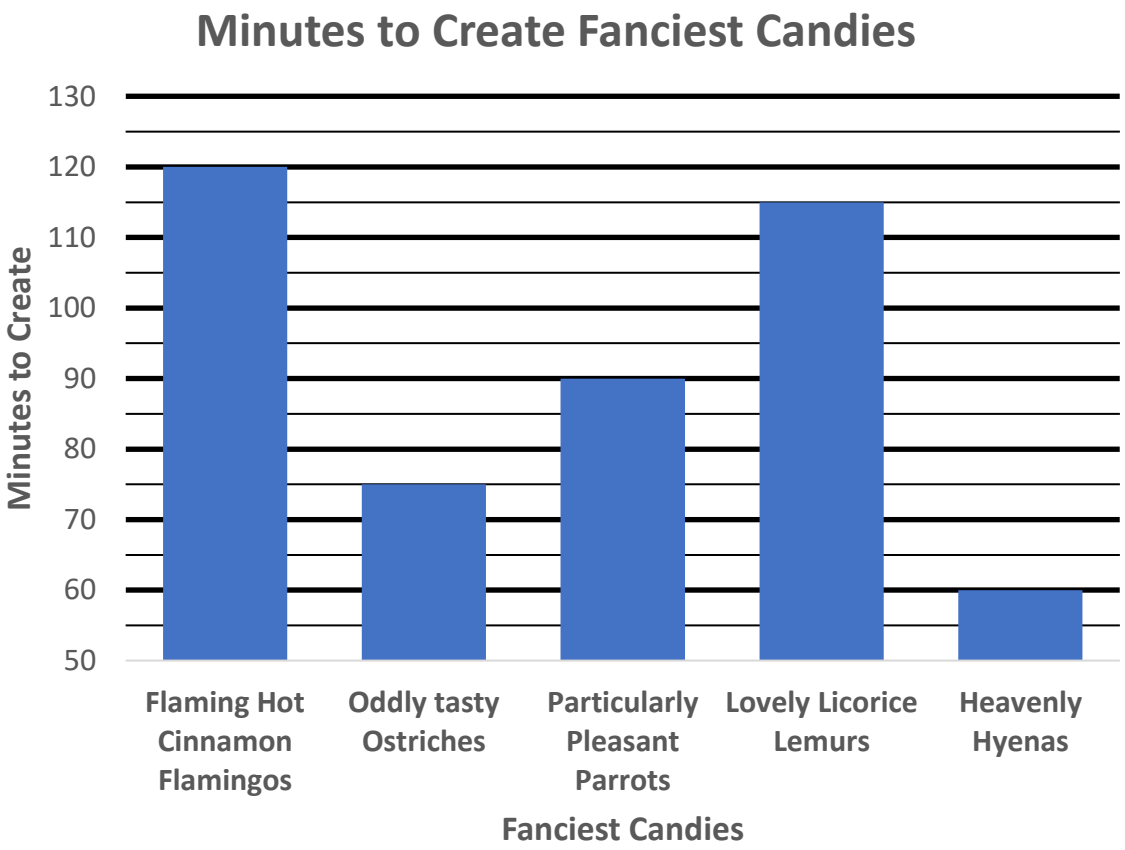
1 285 minutes	**2** C. 176	**3** C. $\frac{2}{3}$	**4** B. 160
5 B. 40	**6** A. 18	**7** B. $\frac{1}{6}$	**8** D.1.25
9 C. 35	**10** D. 115	**11** C. 2.9	**12** A. 7
13 D. 125	**14** C. 20	**15** 420 minutes	**16** C. 16.5
17 A. 1	**18** A. 20	**19** B. 6	**20** C. $\frac{3}{10}$
21 775	**22** A. 10	**23** C. 7	**24** B. $\frac{1}{4}$
25 675	**26** D. 105	**27** A. 47	**28** B. 390
29 A. 0	**30** D. 6	**31** A. 10	**32** 2 ostriches takes longer by 30 minutes



1. Zelda's Zoo is a candy store that makes and sells candy in the shape of animals. Some of the candies are fancy and take a long time to make. The chart shows how long it takes to create the fanciest candies. A customer has ordered an ostrich, a parrot and 2 Hyenas. How many total minutes will it take to create the candy for this order?

Ryan's Math Scores

Stem	Leaf
7	9
8	2 2 3 6
9	0 1 3 4 7

9|1 means 91.

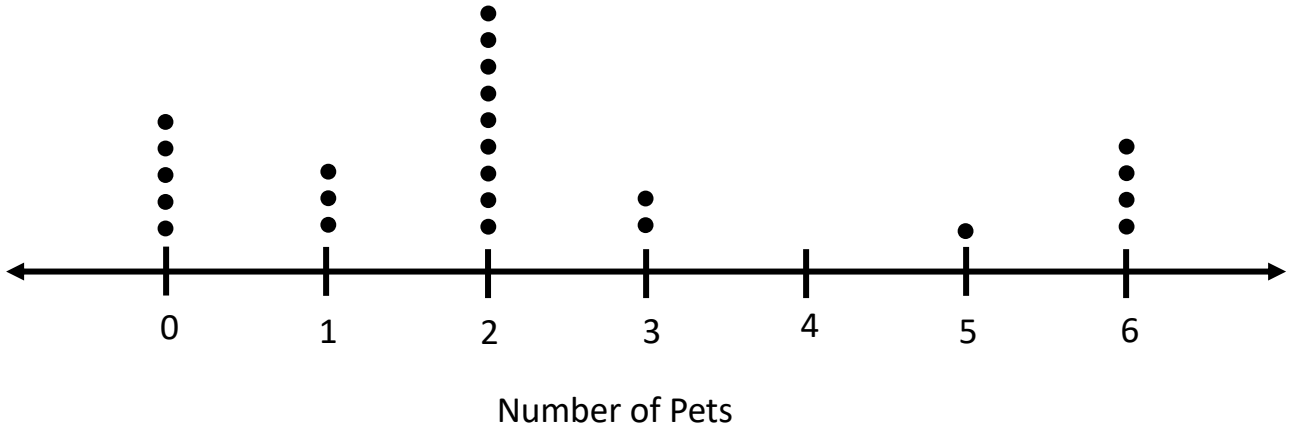
2. What is the sum of Ryan's greatest math score and least math score?

A. 169

B. 187

C. 176

D. Not there



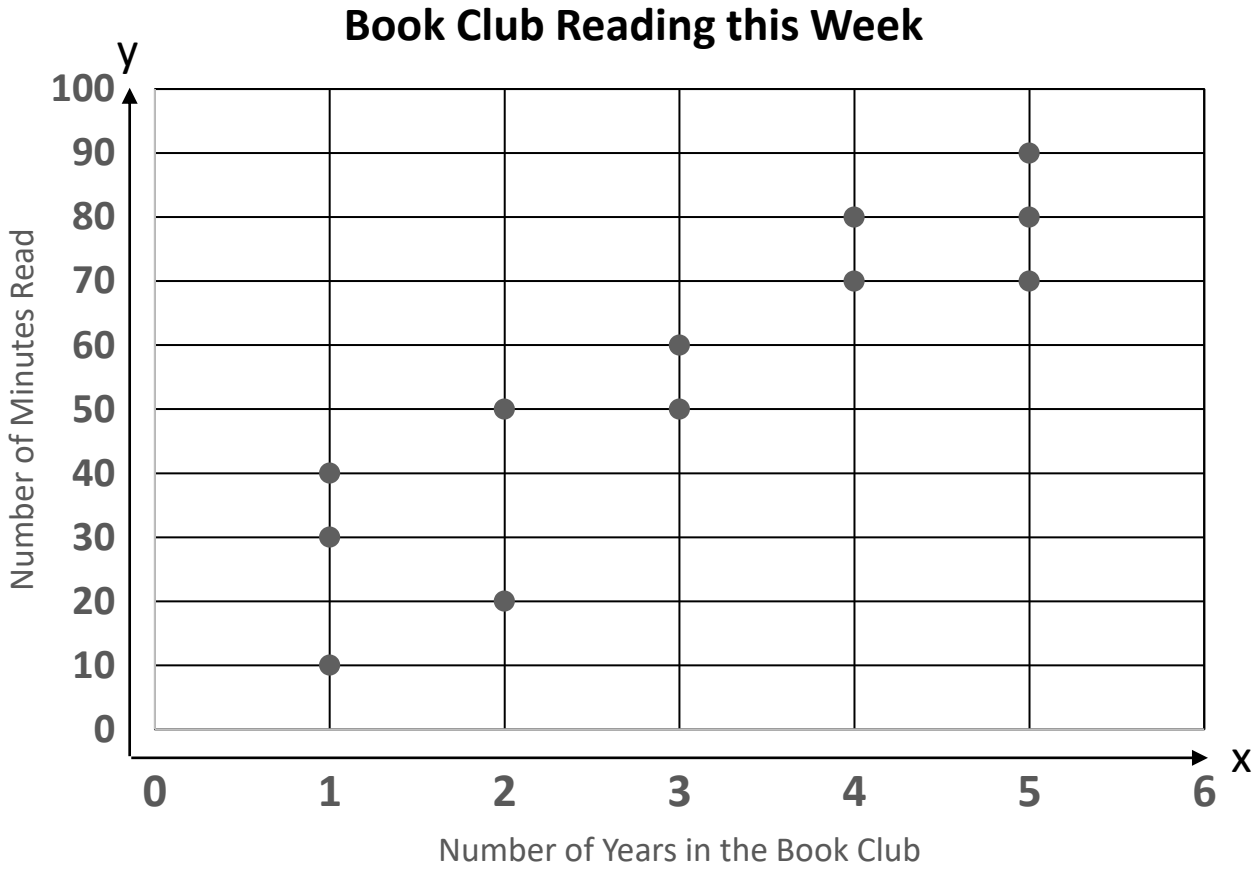
3. The dot plot shows the numbers of pets that the students in a class own. What fraction of the students in this class have two or more pets?

A. $\frac{1}{3}$

B. $\frac{7}{24}$

C. $\frac{2}{3}$

D. $\frac{3}{8}$



4. The scatterplot shows the number of minutes each student in a book club read during a week, and the number of years the student has participated in the book club. What is the difference in the total number of minutes read by the students who have participated for 5 years, and the total number of minutes read by the students who have participated for 1 year?

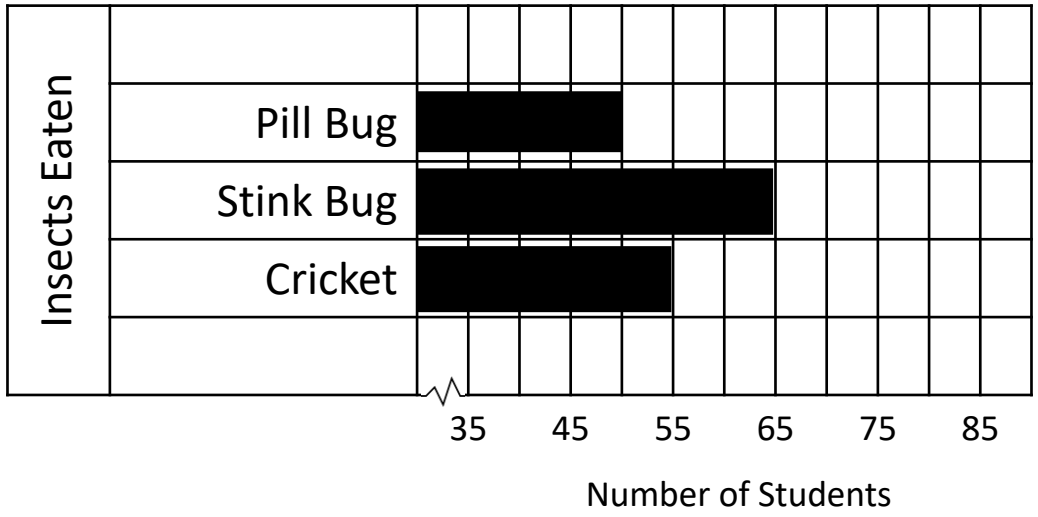
A. 200

B. 160

C. 150

D. 80

Most Disgusting Insect to Eat



5. In the graph shown, the students at Donald's School for Disgusting Kids recorded which insect they thought was most disgusting to eat. What is the difference between the number of students who thought Stink Bugs were most disgusting and the combined number students who thought either Pill Bugs or Crickets were most disgusting?

A. 30

B. 40

C. 50

D. 105

Matilda's Math Scores

Stem	Leaf
7	9
8	2 2 3 6
9	0 1 3 4 7

9|1 means 91.

6. What is the difference between Matilda's best math score and her worst math score?

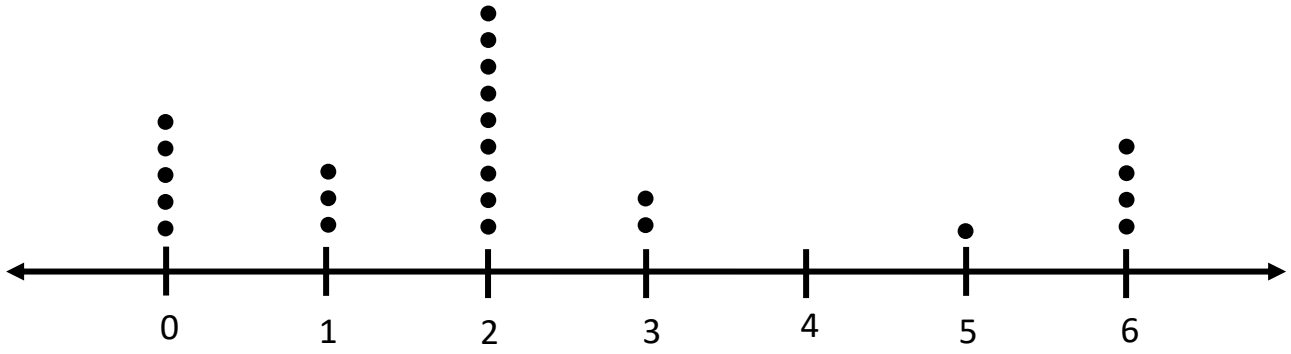
A. 18

B. 11

C. 90

D. 3

Number of Lizards Eaten by Varsity Team Members



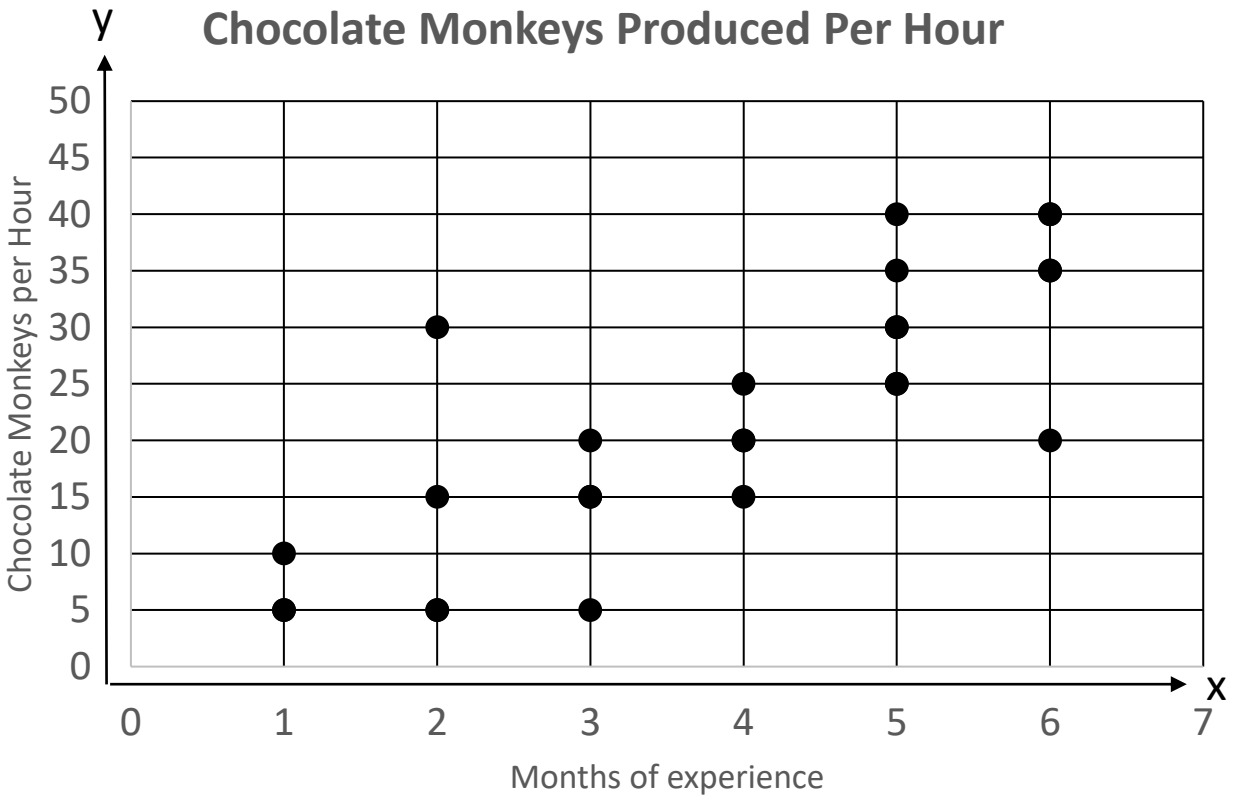
7. The dot plot shows the numbers of lizards eaten by the members of the varsity Lizard Eating Team at Donald's School for Disgusting Kids. What fraction of the team members ate 6 lizards?

A. $\frac{1}{3}$

B. $\frac{1}{6}$

C. $\frac{2}{3}$

D. $\frac{2}{9}$



8. The scatterplot shows the number of chocolate monkeys each candy-maker can produce per hour and the number of months each candy maker has worked at the factory. What is the difference in the total number of chocolate monkeys produced per hour between the 4 fastest candy-makers and the 4 slowest candy makers?

A. 110

B. 115

C. 120

D. 125

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Problem Set 2

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5 B. 40	**6** A. 18	**7** B. $\frac{1}{6}$	**8** D.1.25
9 C. 35	**10** D. 115	**11** C. 2.9	**12** A. 7
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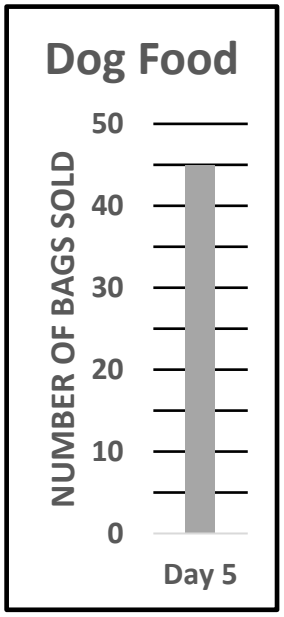
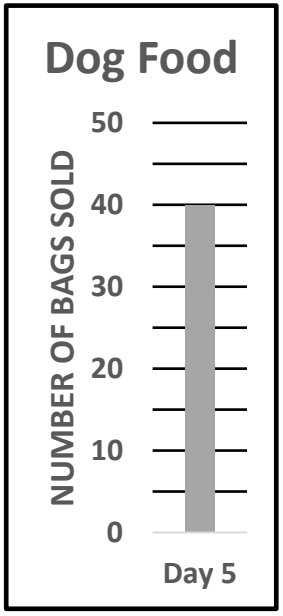
17 A. 1	**18** A. 20	**19** B. 6	**20** C. $\frac{3}{10}$
21 775	**22** A. 10	**23** C. 7	**24** B. $\frac{1}{4}$
25 675	**26** D. 105	**27** A. 47	**28** B. 390
29 A. 0	**30** D. 6	**31** A. 10	**32** 2 ostriches takes longer by 30 minutes

9. The bar graph shows the numbers of bags of two brands of dog food that were sold at a store. One bar for Day 5 is missing from the graph. The number of bags of Brand Y dog food sold on these five days is 175. Which bar represents the data for Day 5 for Brand Y.

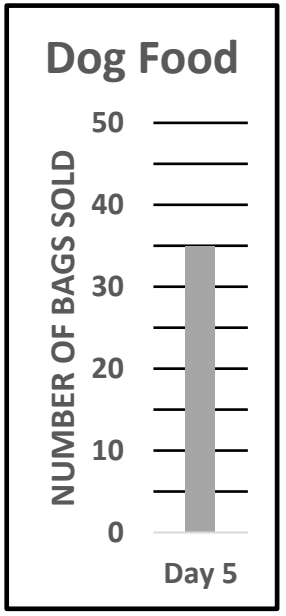
A.



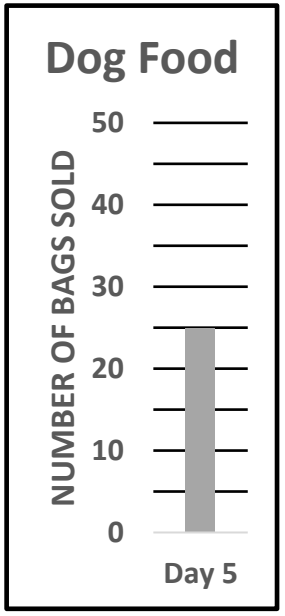
B.



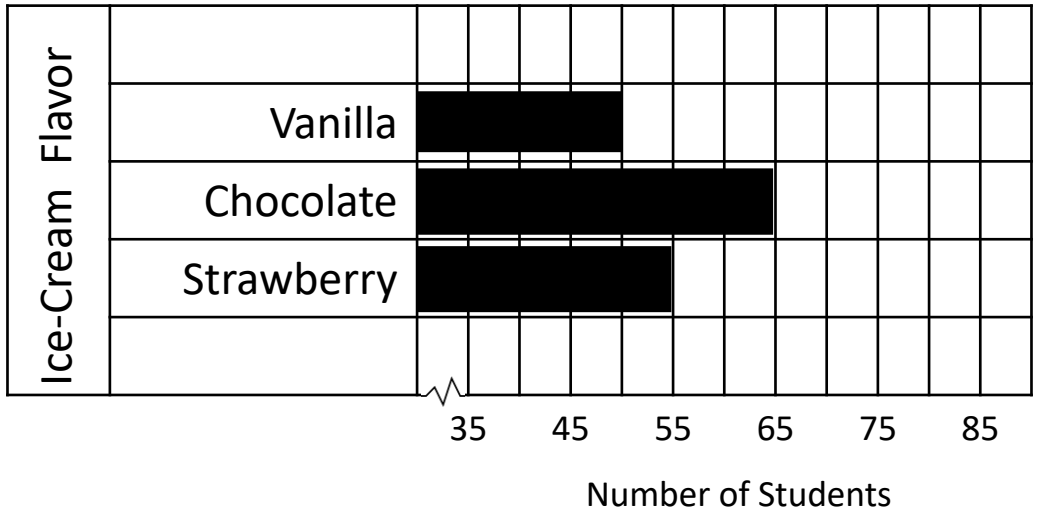
C.



D.



Favorite Ice Cream Flavor



10. The fifth-grade students at Oakwood Elementary School recorded their favorite ice-cream flavor on the graph shown. How many students did not pick strawberry as their favorite ice-cream flavor?

A. 55

B. 120

C. 125

D. 115

Dance Contest Scores

Stem	Leaf
6	8 9 9
7	5
8	2 7
9	5 7

6|8 means 6.8.

11. The Stem and Leaf plot shows the scores of eight people at a dance contest. What is the difference between the highest score and the lowest score?

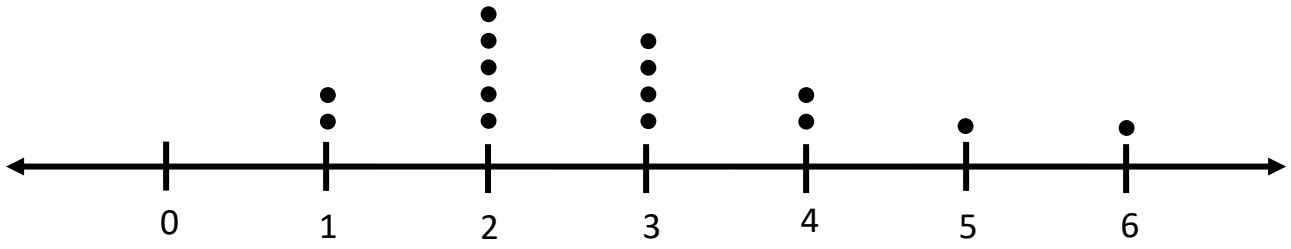
A. 2.8

B. 2.7

C. 2.9

D. 2.6

Tickets Needed for Carnival Rides



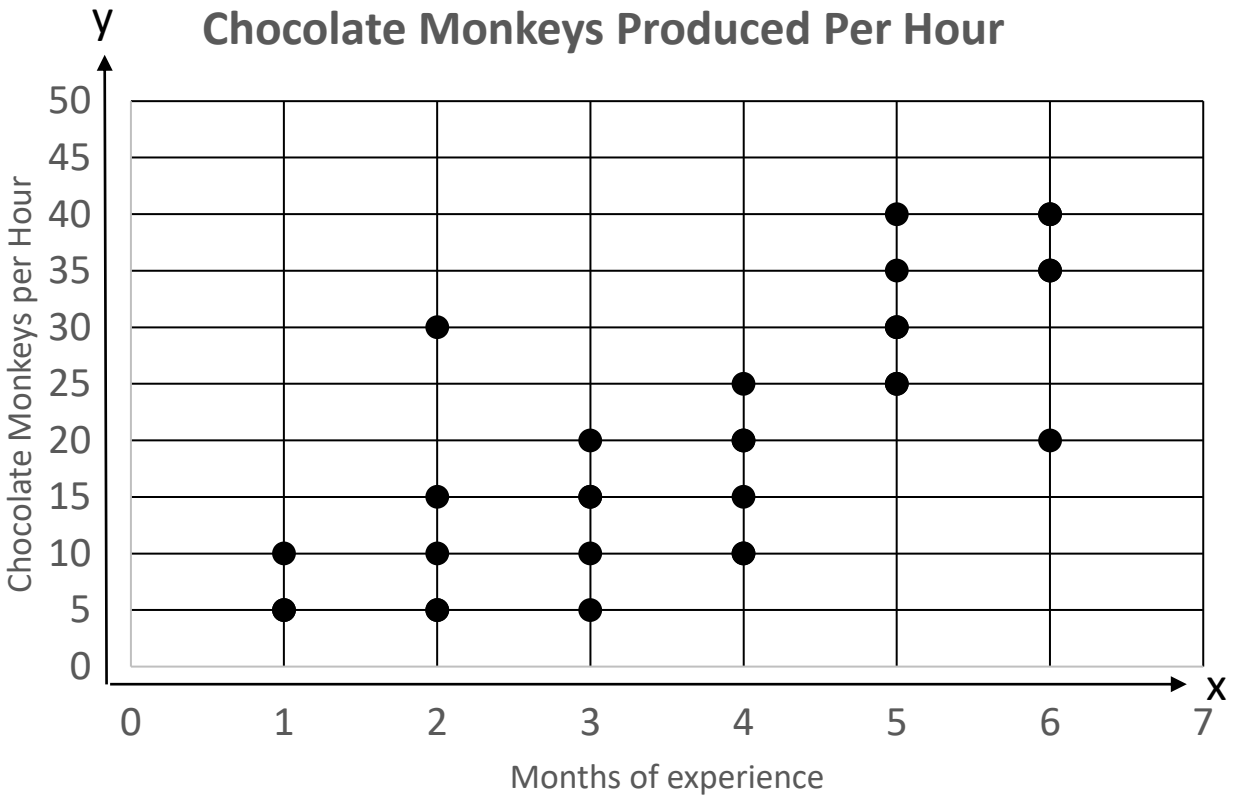
12. The dot plot shows the number of tickets needed for each ride at a carnival. What is the difference between the number of rides that need fewer than 4 tickets and the number of rides that need 4 or more tickets?

A. 7

B. 2

C. 9

D. 4



13. The scatterplot shows the number of chocolate monkeys each candy-maker can produce per hour and the number of months each candy maker has worked at the factory. How many chocolate monkeys can the candy-makers with 3 months experience or less make all together in an hour?

A. 110

B. 115

C. 120

D. 125

Fifth-Grade Shirts

Color	Tally	Frequency
Red	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 ||	32
Blue	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	35
Green	𝍸 𝍸 𝍸 𝍸 ||||	24
Orange	𝍸 𝍸 𝍸 |||	18
Purple	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 |||	38

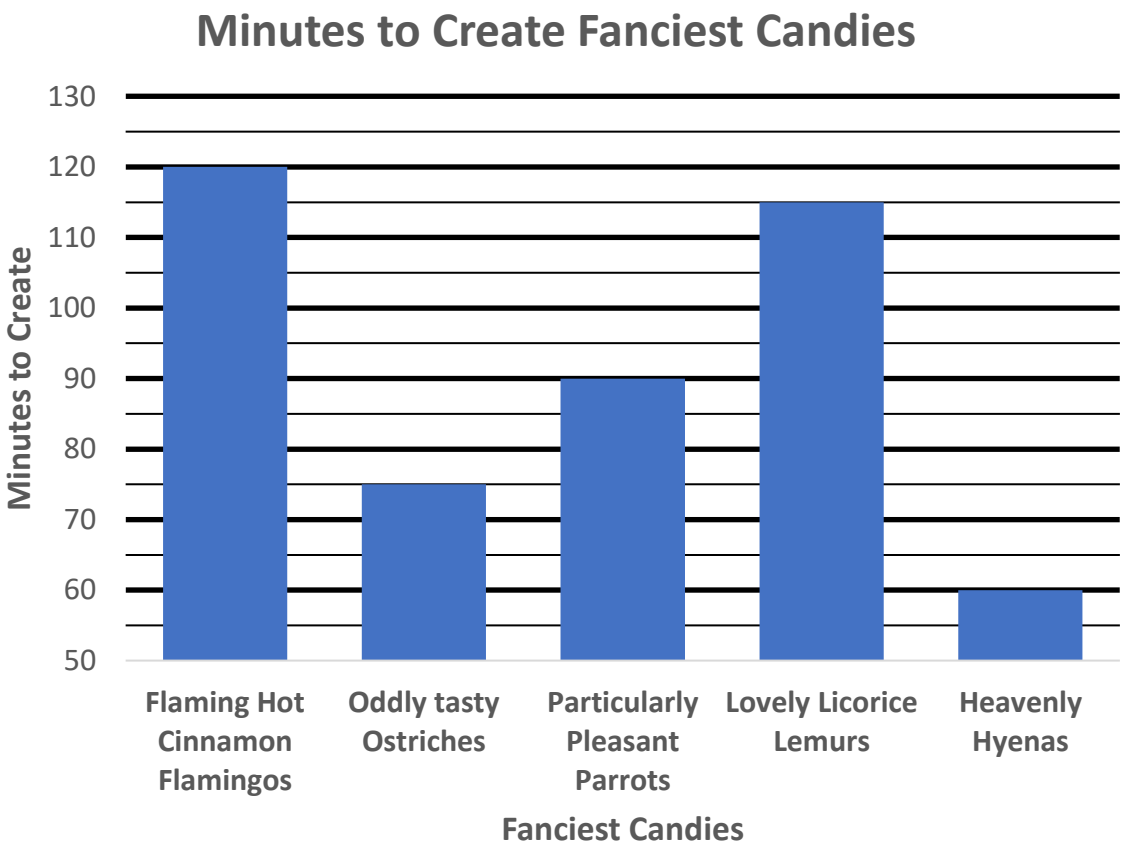
14. The frequency table shows the colors that fifth graders preferred for their school shirts. Based on the data in the table, What is the difference in the number of students who preferred the favorite color and the number who preferred the least favorite color?

A. 32

B. 24

C. 20

D. 6



15. Zelda's Zoo is a candy store that makes and sells candy in the shape of animals. Some of the candies are fancy and take a long time to make. The chart shows how long it takes to create the fanciest candies. A customer has ordered 2 flamingos and 3 Hyenas. How long will it take to make the candies in this order?

Slug Lengths

Stem	Leaf
6	8 9 9
7	5
8	2 7
9	5 7

6|8 means 6.8

16. The Stem and Leaf plot shows the length in centimeters of giant mutant slugs. What is the sum of the lengths of the longest slug and the shortest slug?

A. 16

B. 16.3

C. 16.5

D. 16.6

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Problem Set 3

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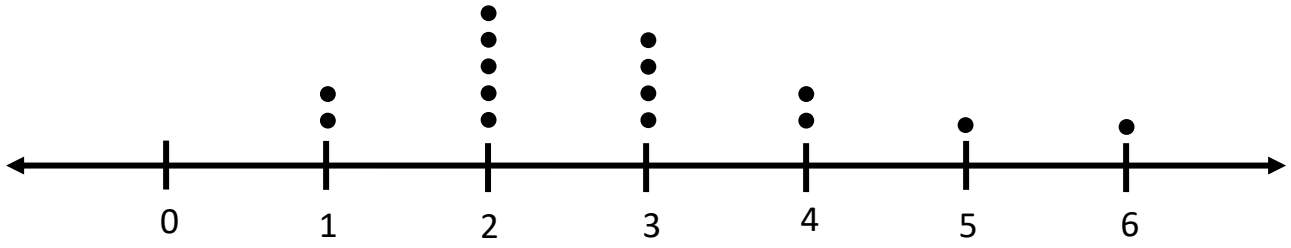
5 B. 40	**6** A. 18	**7** B. $\frac{1}{6}$	**8** D.1.25
9 C. 35	**10** D. 115	**11** C. 2.9	**12** A. 7
13 D. 125	**14** C. 20	**15** 420 minutes	**16** C. 16.5
17 A. 1	**18** A. 20	**19** B. 6	**20** C. $\frac{3}{10}$
21 775	**22** A. 10	**23** C. 7	**24** B. $\frac{1}{4}$
25 675	**26** D. 105	**27** A. 47	**28** B. 390
29 A. 0	**30** D. 6	**31** A. 10	**32** 2 ostriches takes longer by 30 minutes

Bags of Jewels Captured by 2nd Year Pirates



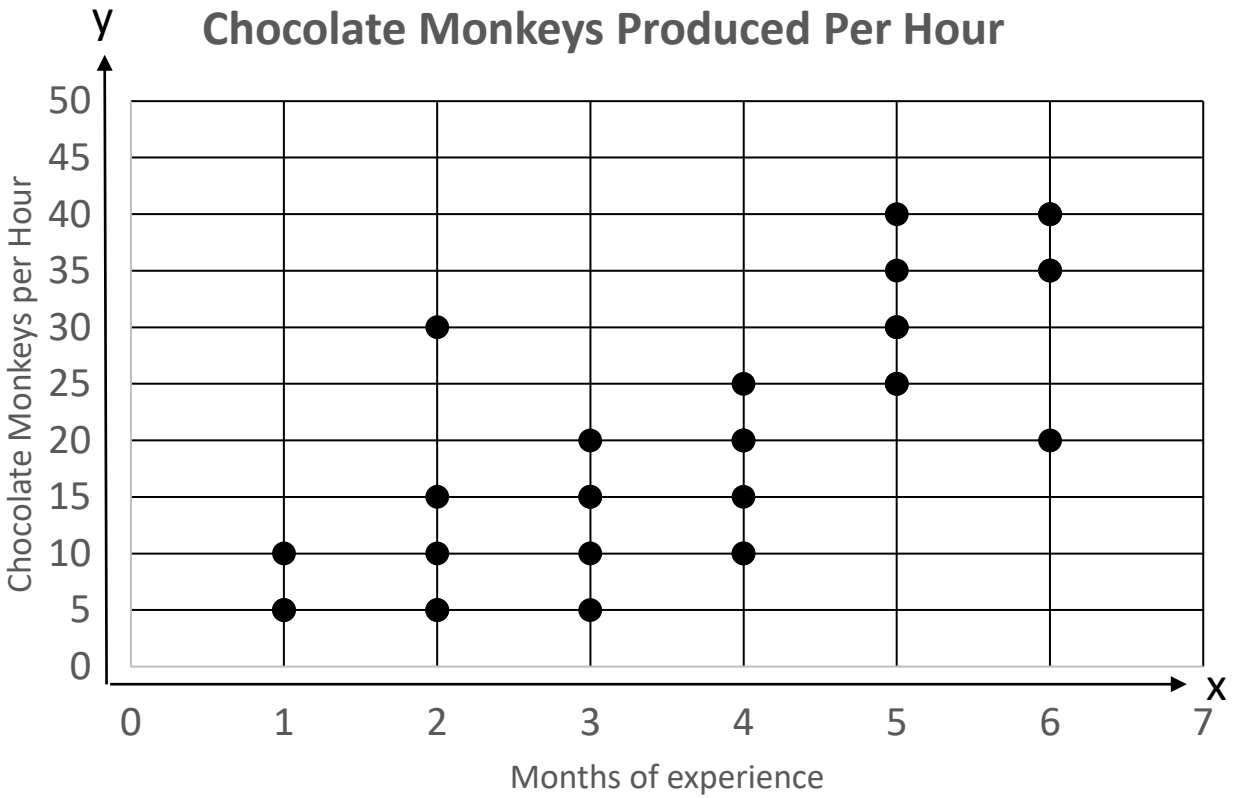
17. The dot plot shows the number of bags of jewels captured by this year's class of 2nd Year Pirates at One-Eyed Jack's Pirate School. What is the difference between the number of pirates who captured 3 or more bags of jewels and the number who captured 2 or fewer bags of jewels?

A. 1

B. 2

C. 3

D. 4



18. The scatterplot shows the number of chocolate monkeys each candy-maker can produce per hour and the number of months each candy maker has worked at the factory. How many more monkeys per hour do the candy-makers with 4 months experience produce compared to the candy-makers with 3 months experience?

A. 20

B. 25

C. 30

D. 35

Number of Sit Ups

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

6|2 means 62.

19. The stem and leaf plot shows the number of sit-ups a group of students did in P.E. What is the difference between the number of students who did more than 36 sit-ups and the number of students who did fewer than 25 sit-ups?

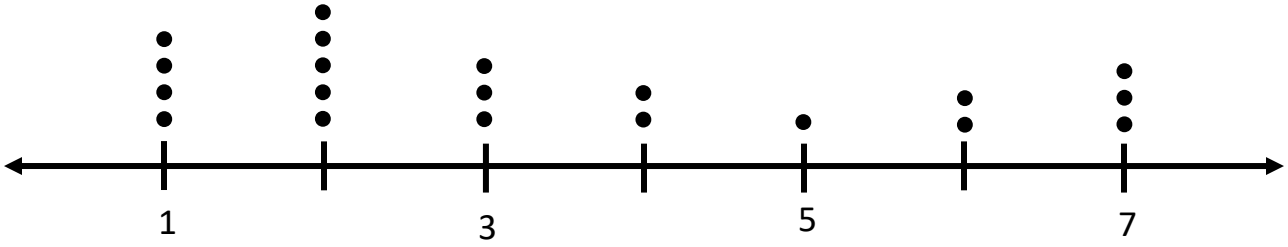
A. 11

B. 6

C. 18

D. 1

Students Making Words



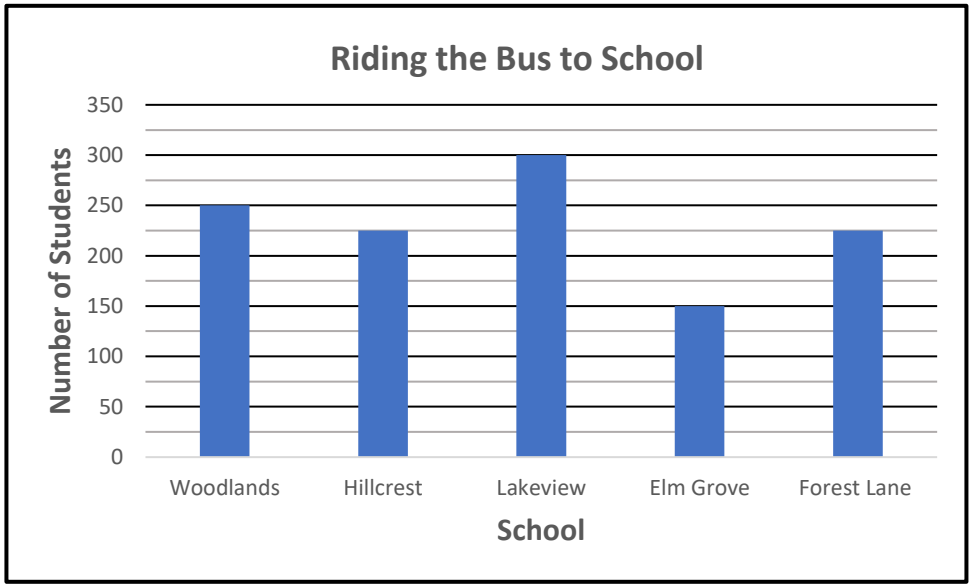
20. The students in a class were each given a set of letters and asked to make words. The dot plot shows the numbers of students who made from 1 to 7 words. What fraction of the students in the class made 5 or more words?

A. $\frac{1}{20}$

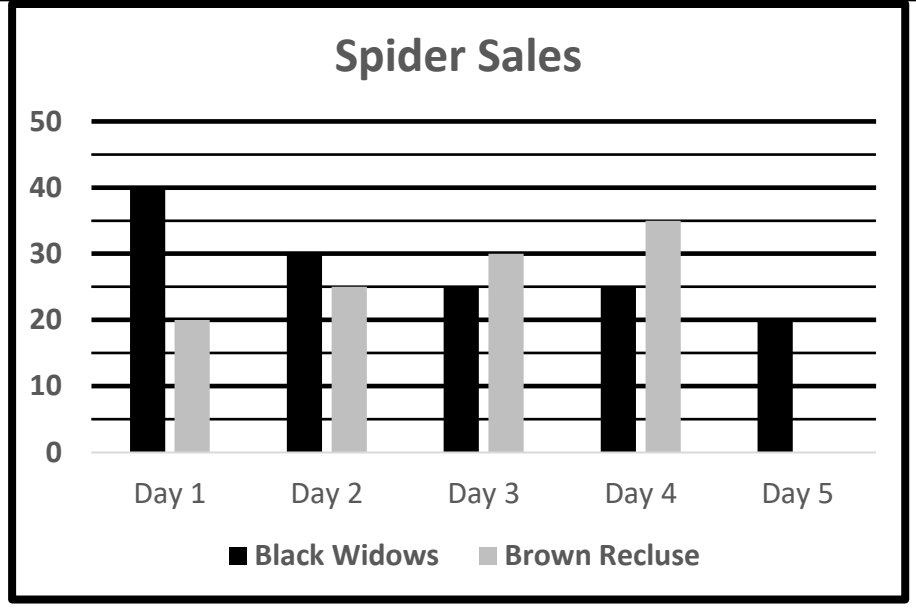
B. $\frac{1}{4}$

C. $\frac{3}{10}$

D. $\frac{3}{4}$

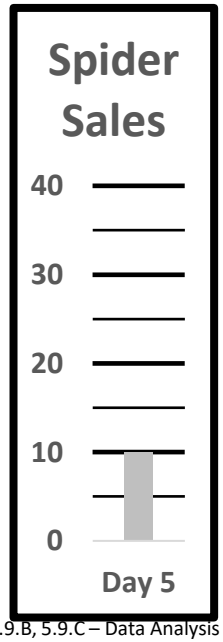


21. The graph shows the number of students at five schools who ride the bus to school. Based on the graph, how many students ride the bus to the Woodlands, Hillcrest, and Lakeview Schools?

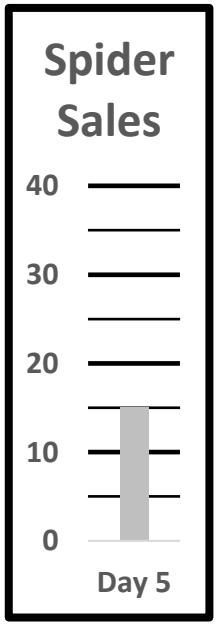


22. The bar graph shows the numbers of two kinds of spiders that are sold at Wanda's Witch Supply Store. One bar for Day 5 is missing from the graph. The number of Brown Recluse Spiders sold during these five days was 120. Which bar represents the data for Day 5 for Brown Recluse Spiders.

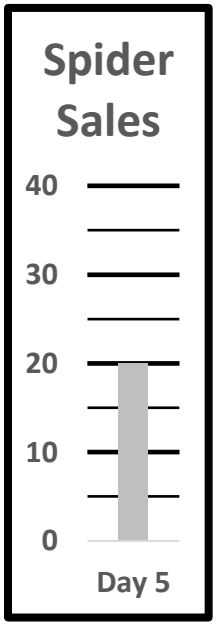
A.



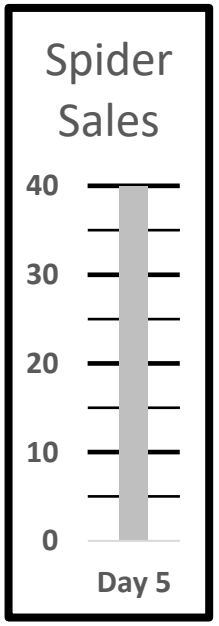
B.



C.



D.



Number of Bricks Broken

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

6|2 means 62.

23. The stem and leaf plot shows the numbers of bricks a group of students at Karate school where able to break. What is the difference between the number of students who broke more than 40 bricks and the number of students who broke fewer than 20 bricks?

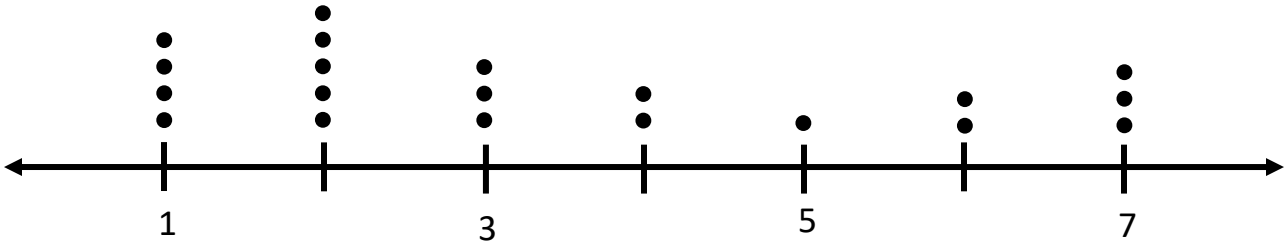
A. 5

B. 6

C. 7

D.8

Students Swallowing Earth Worms



Number of Earth Worms Swallowed

24. The students at Donald's School for Disgusting Kids are practicing swallowing earth worms. The dot plot shows the number of students who swallowed from 1 to 7 worms. What fraction of the class was able to swallow 6 or more worms?

A. $\frac{1}{20}$

B. $\frac{1}{4}$

C. $\frac{3}{10}$

D. $\frac{3}{4}$

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Problem Set 4

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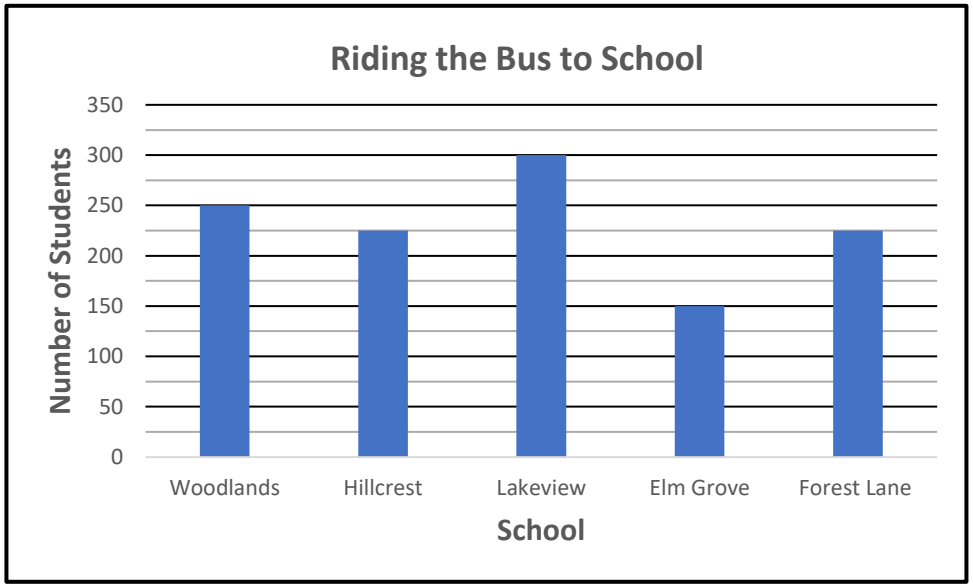


25. The graph shows the number of students at five schools who ride the bus to school. Based on the graph, how many students ride the bus to the Lakeview, Elm Grove, and Forest Lane Schools?

Fifth-Grade Shirts

Color	Tally	Frequency
Red	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 ||	32
Blue	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	35
Green	𝍸 𝍸 𝍸 𝍸 ||||	24
Orange	𝍸 𝍸 𝍸 |||	18
Purple	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 |||	38

26. The frequency table shows the colors that fifth graders preferred for their school shirts. Based on the data in the table, how many students preferred the three colors that had the highest frequencies?

A. 38

B. 91

C. 147

D. 105

Practice Times

Stem	Leaf
1	9 9
2	0 1 3
3	3 4 6 7
4	1 1 3 5 9 9
5	0 4 2
6	3 5 6

3|6 means 36 mnutes.

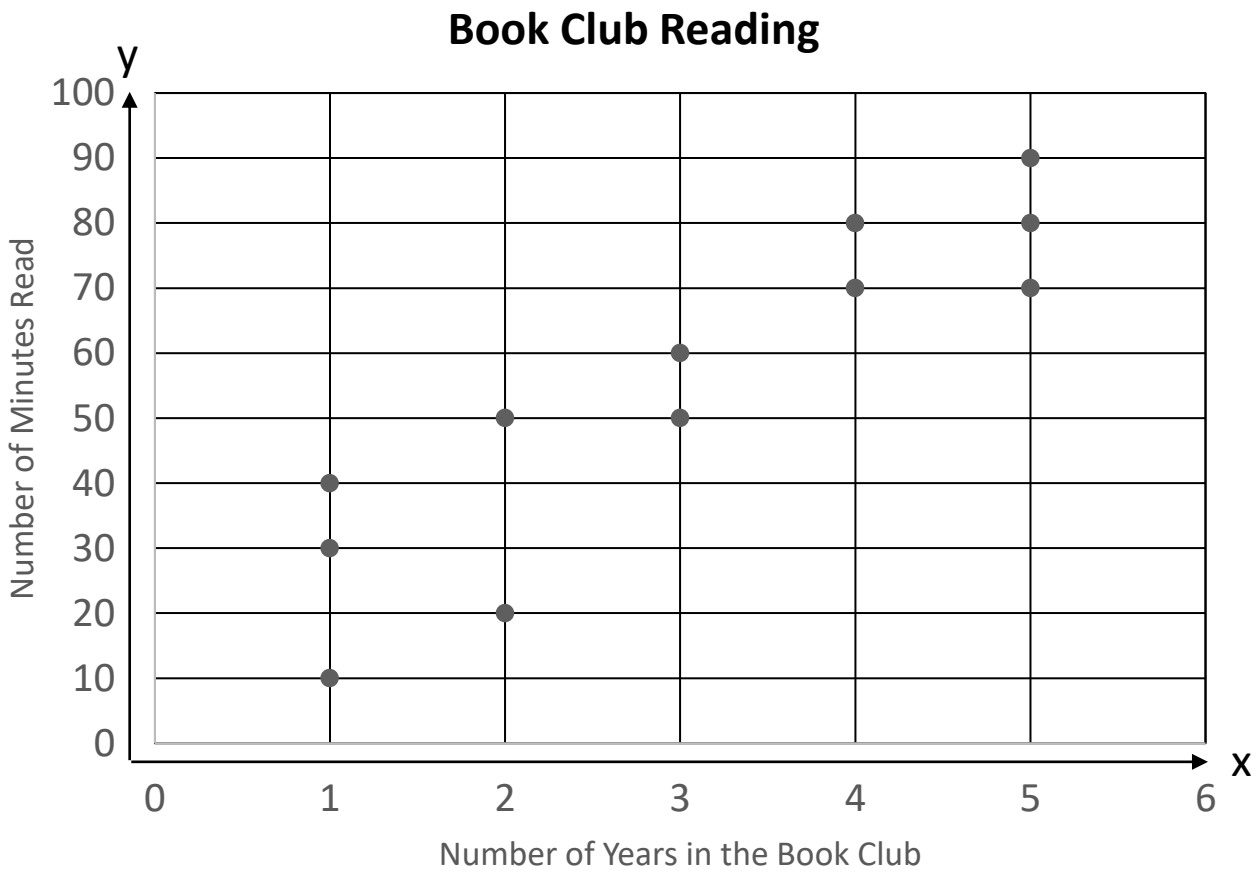
27. The stem and leaf plot shows the numbers of minutes the members of a team jumped rope during practice. What is the difference between the least number of minutes jumped and the greatest number of minutes jumped?

A. 47

B. 9

C. 5

D. 49



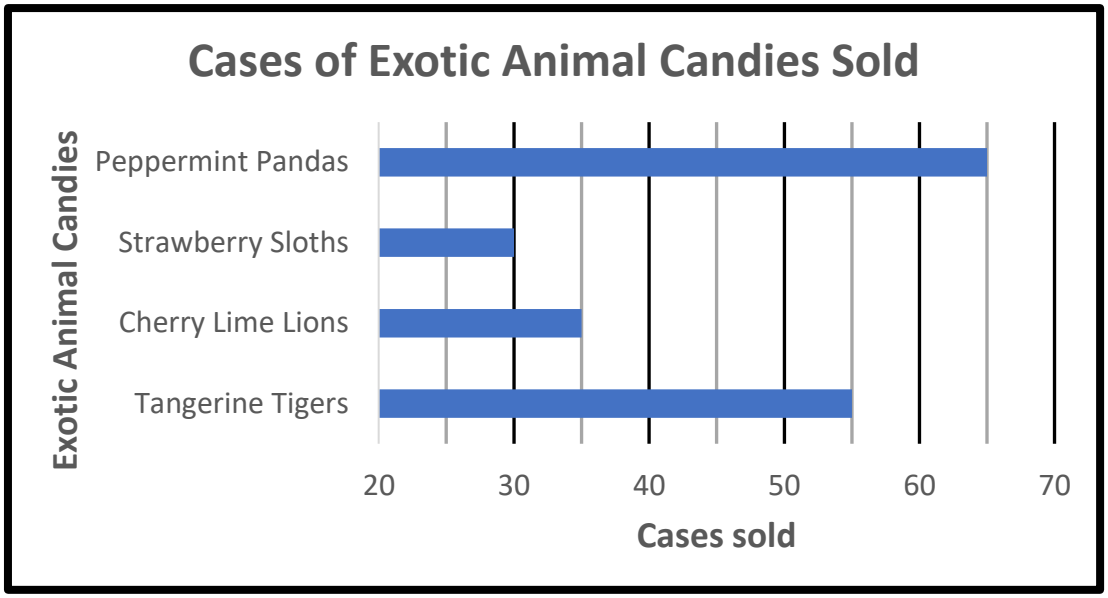
28. The scatterplot shows the number of minutes each student in a book club read during a week and the number of years the student has participated in the book club. What is the total number of minutes read by the students who have participated in the book club for 4 or 5 years

A. 450

B. 390

C. 90

D. 80



29. Zelda ‘s Zoo is a fancy candy store that sells candy in the shape of exotic animals. The chart shows the annual sales of cases of their 4 most popular candies. What is the difference between the cases of Peppermint Pandas sold and the combined total of Strawberry Sloths and Cherry Lime Lions sold?

A. 0

B. 20

C. 35

D. 65

Jellybeans Eaten

Stem	Leaf
1	9 9
2	0 1 3
3	3 4 6 7
4	1 1 3 5 9 9
5	0 4 2
6	3 5 6

3|6 means 36 Jellybeans eaten

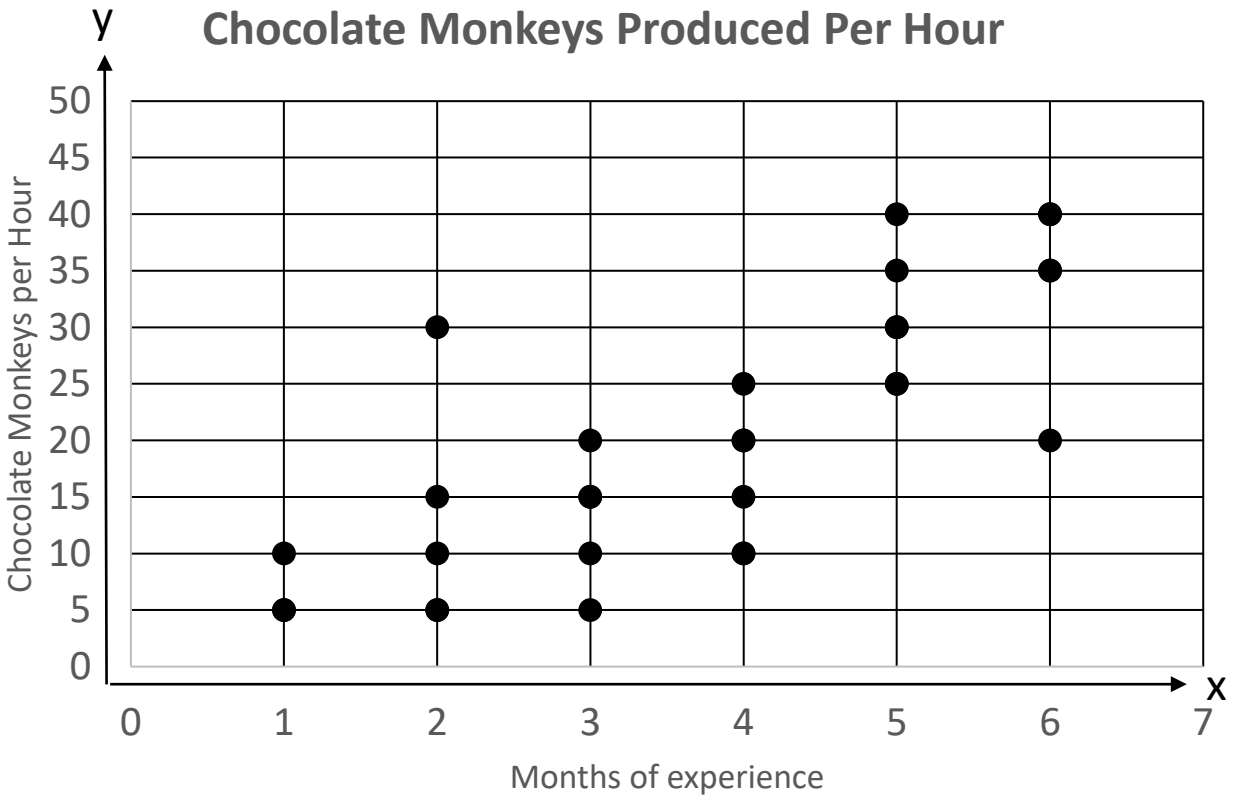
30. The stem and leaf plot shows the numbers of jellybeans Carlotta the Cavity Queen ate for breakfast for several days. How many days did Carlotta eat 50 jellybeans or more?

A. 3

B. 4

C. 5

D. 6



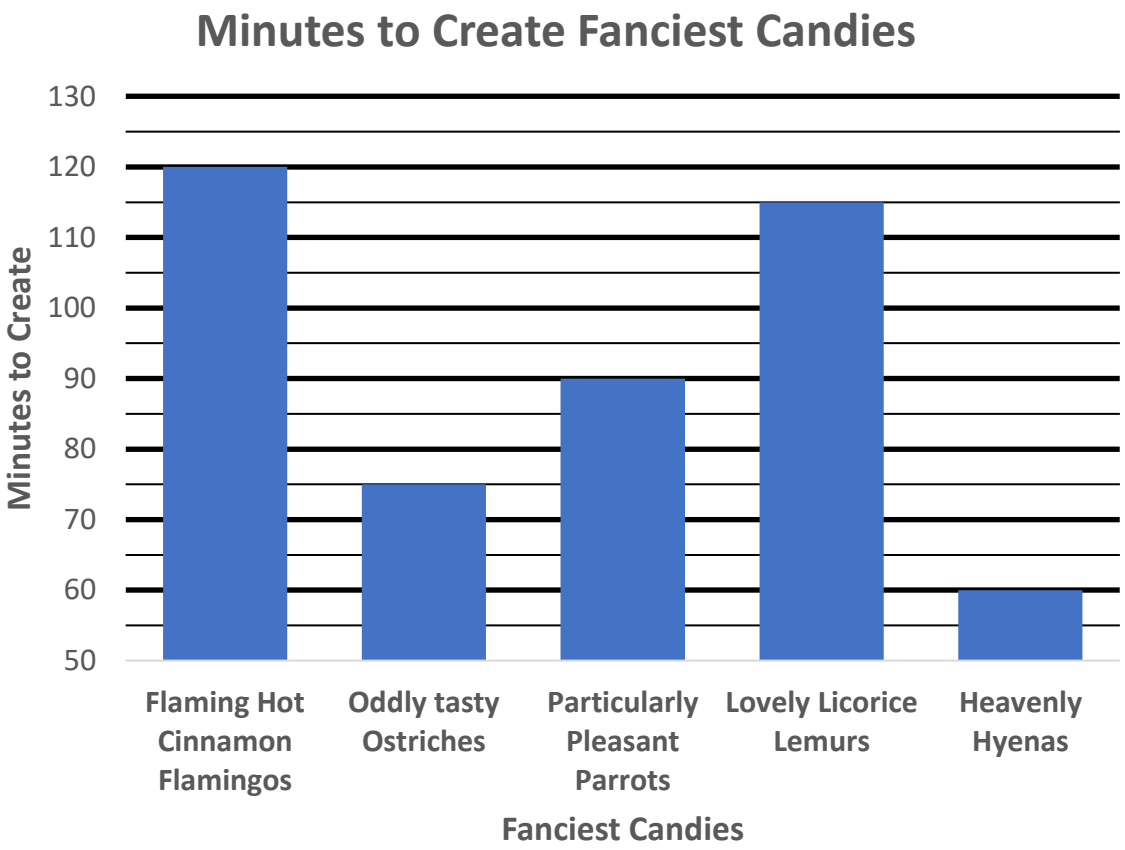
31. The scatterplot shows the number of chocolate monkeys each candy-maker can produce per hour and the number of months each candy maker has worked at the factory. How many more monkeys per hour does the fastest candy-maker with 2 months experience make compared to the slowest candy-maker with 6 months experience?

A. 10

B. 15

C. 20

D. 25



32. Zelda's Zoo is a candy store that makes and sells candy in the shape of animals. Some of the candies are fancy and take a long time to make. The chart shows how long it takes to create the fanciest candies. Which takes longer to create? A flamingo or two ostriches? How much longer?