

Evaluation of a Visualization Assistant

1. Specify your gender

Mark only one oval.

☐ Female

☐ Male

☐ Other

2. Provide your age

3. Specify your field of study

4. Specify your highest academic degree.

Mark only one oval.

☐ None

☐ Bachelor

☐ Master

☐ Phd.

5. I have diffilculties distinguishing colors.

Mark only one oval.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

6. I have little experience with visualization.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

7. I feel confident in handling data

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

8. I have little knowledge about statistics

Mark only one oval.

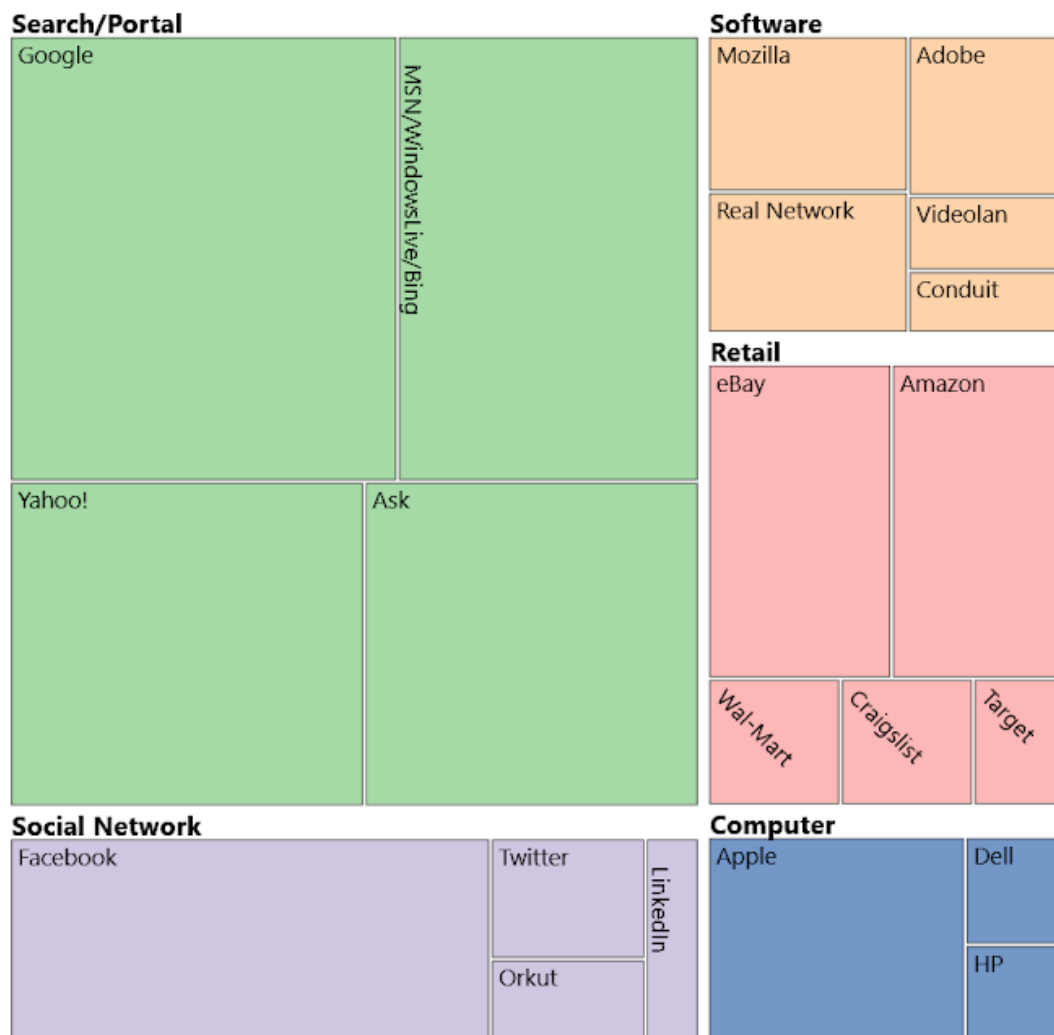
	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

Mini Visualization Literacy Assesment Test

Complete each task in this section within 30 seconds. If unsure, skip the question.

9. eBay is nested in the Software category.

The Number of Unique Visitors for Websites

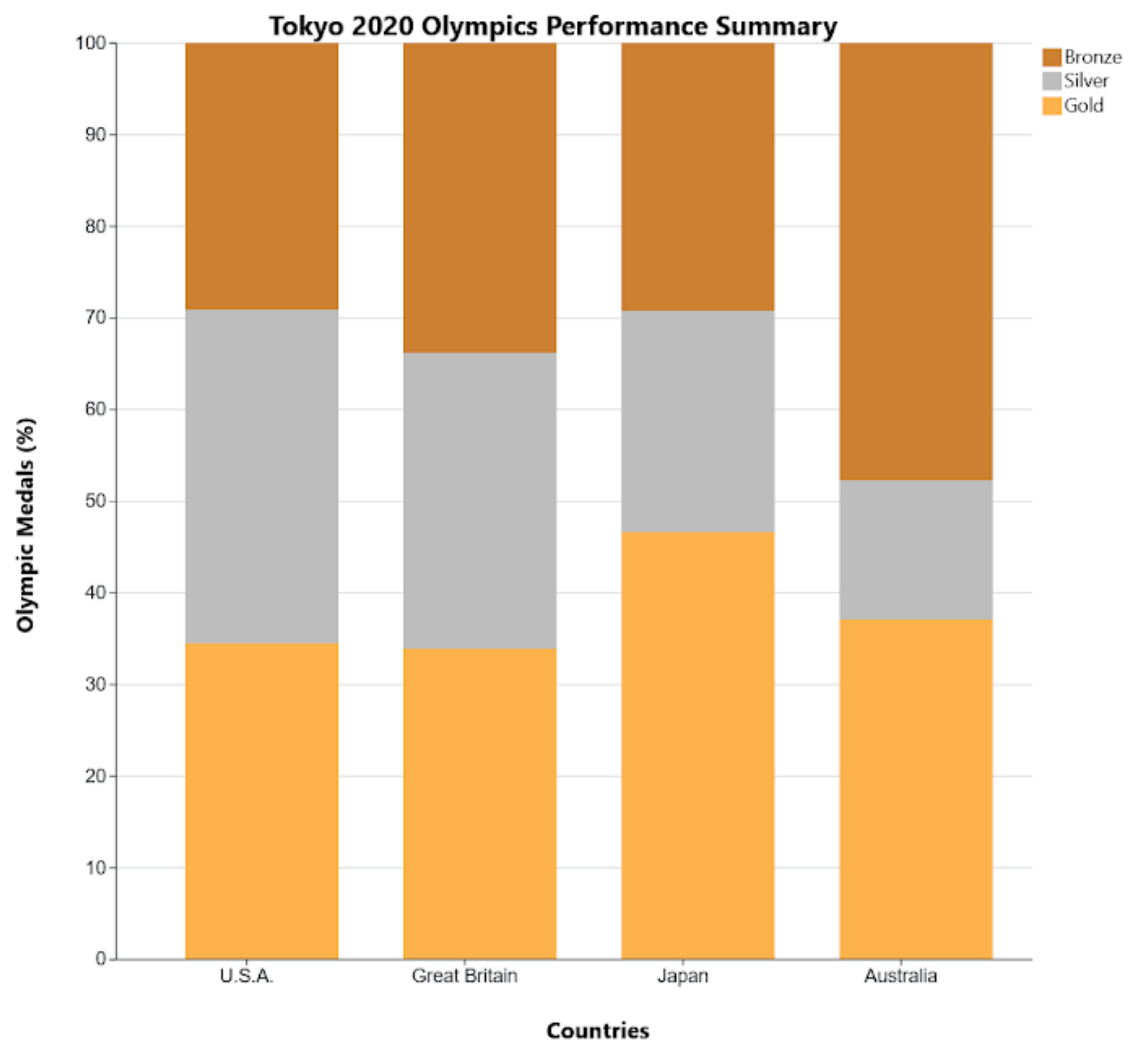


Mark only one oval.

☐ True

☐ False

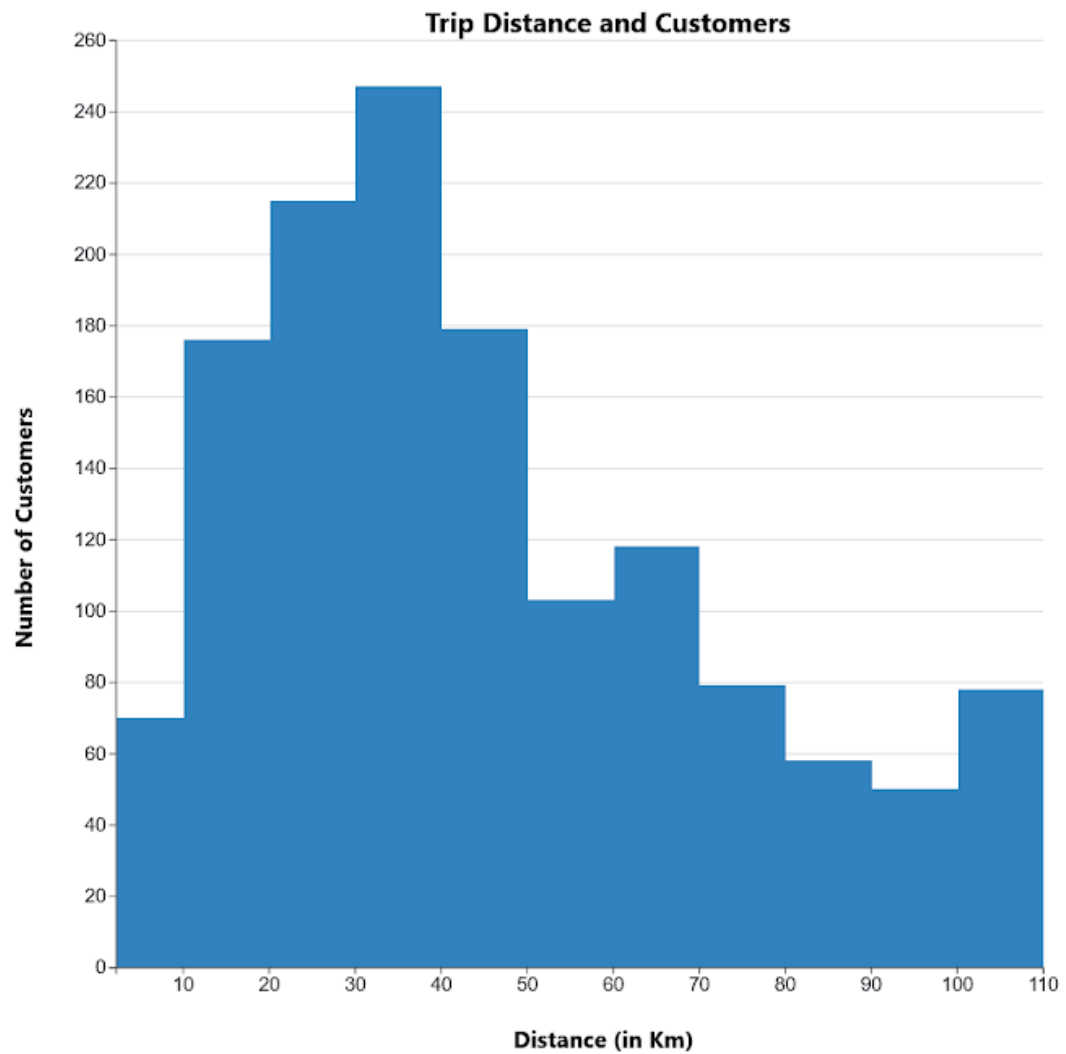
10. Which country has the lowest proportion of Gold medals?



Mark only one oval.

- ☐ Great Britain
- ☐ USA
- ☐ Japan
- ☐ Australia

11. What distance have customers traveled in the taxi the most?



Mark only one oval.

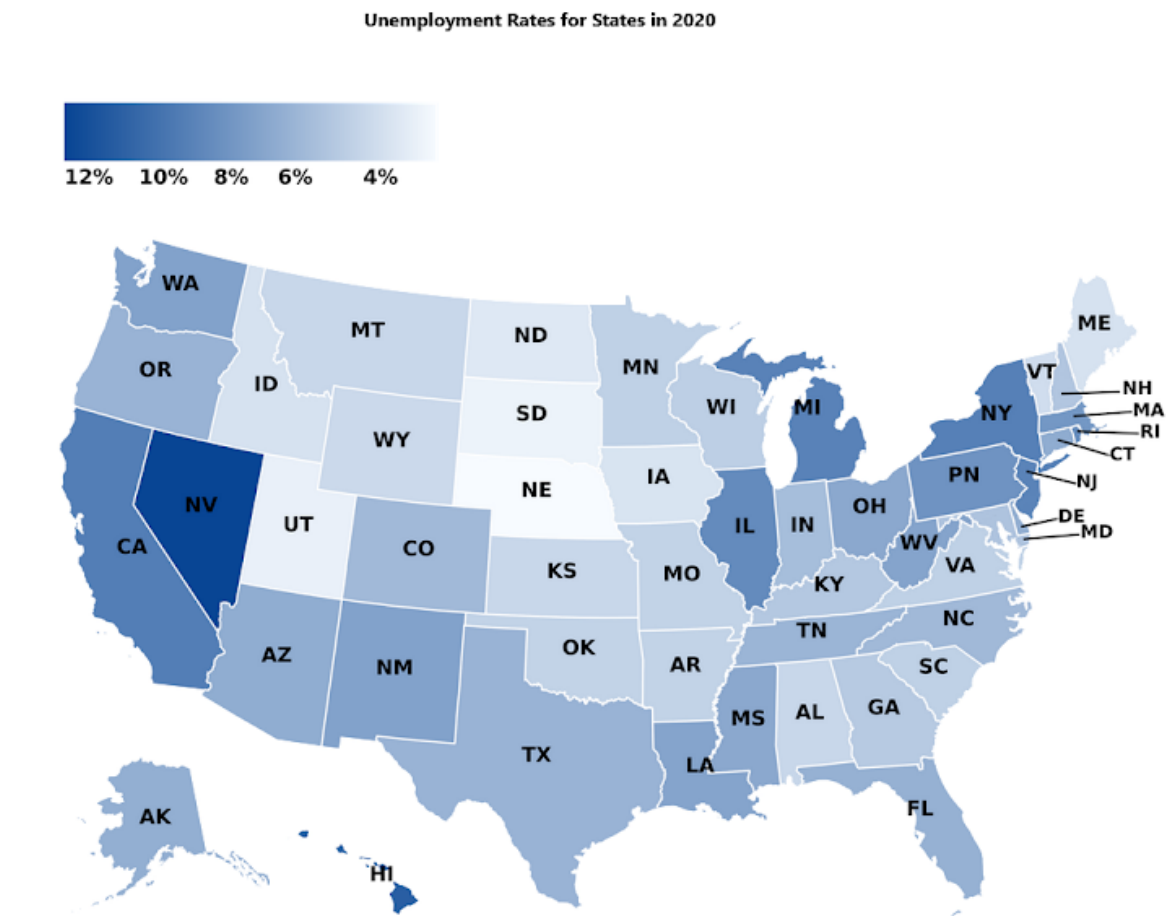
☐ 60 – 70 km

☐ 30 – 40 km

☐ 20 – 30 km

☐ 50 – 60 km

12. In 2020, the unemployment rate for Washington (WA) was higher than that of Wisconsin (WI)?



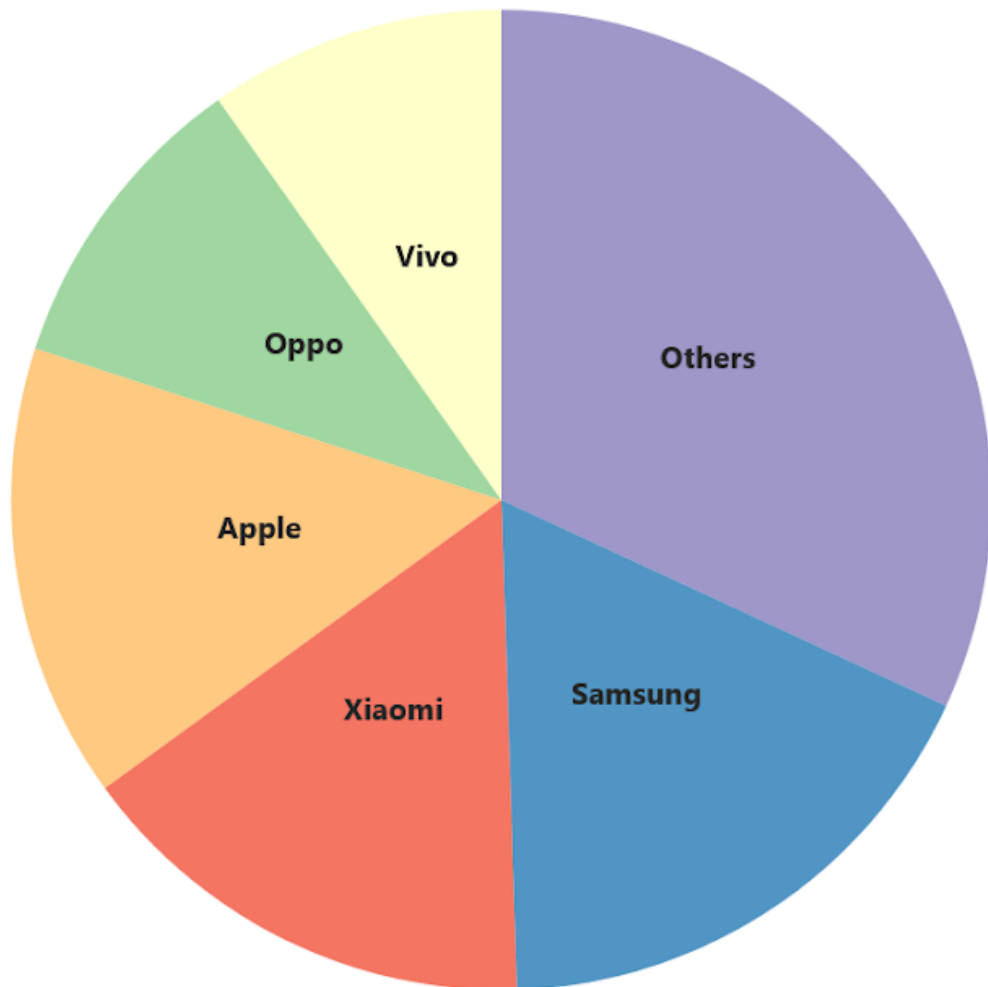
Mark only one oval.

☐ True

☐ False

13. What is the approximate global smartphone market share of Samsung?

Global Smartphone Market Share in 2021



Mark only one oval.

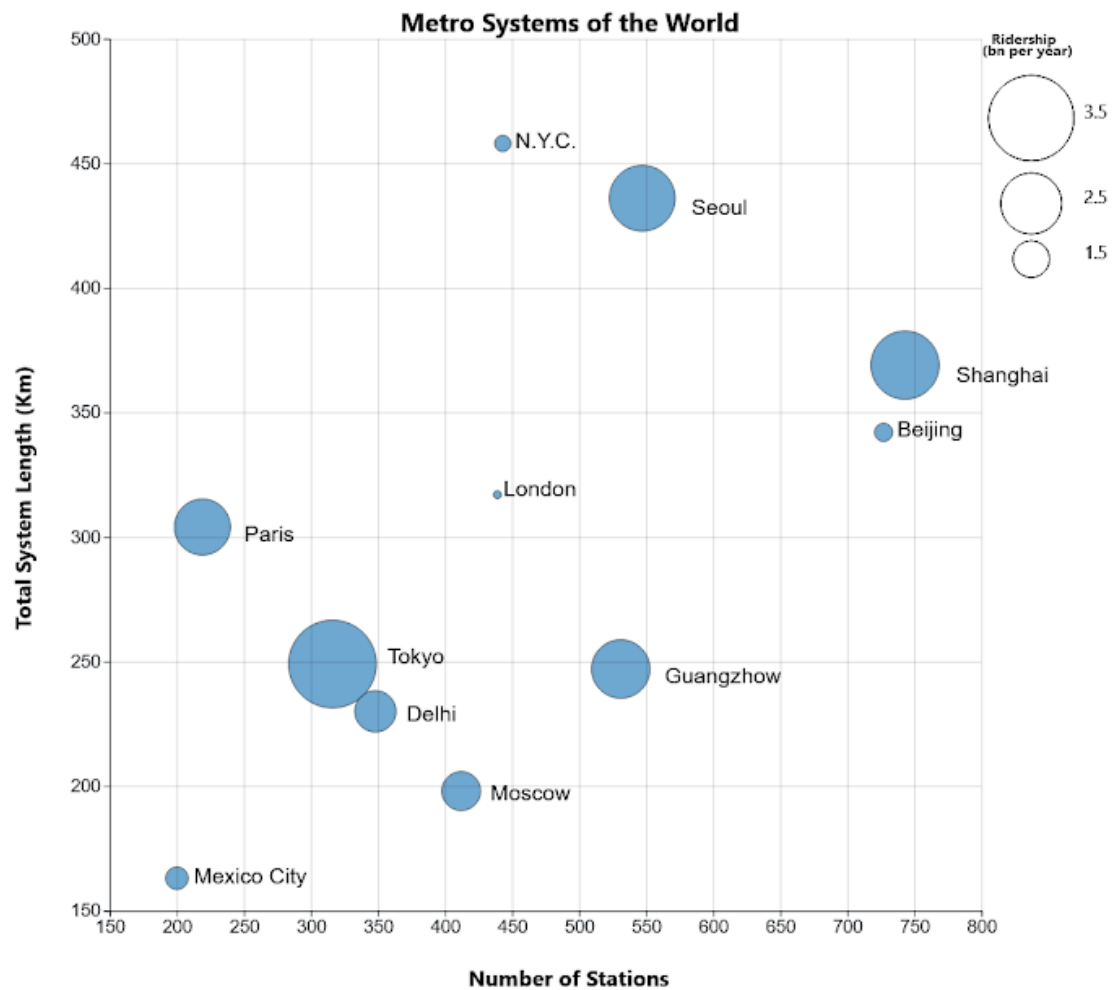
☐ 17.6%

☐ 25.3%

☐ 10.9%

☐ 35.2%

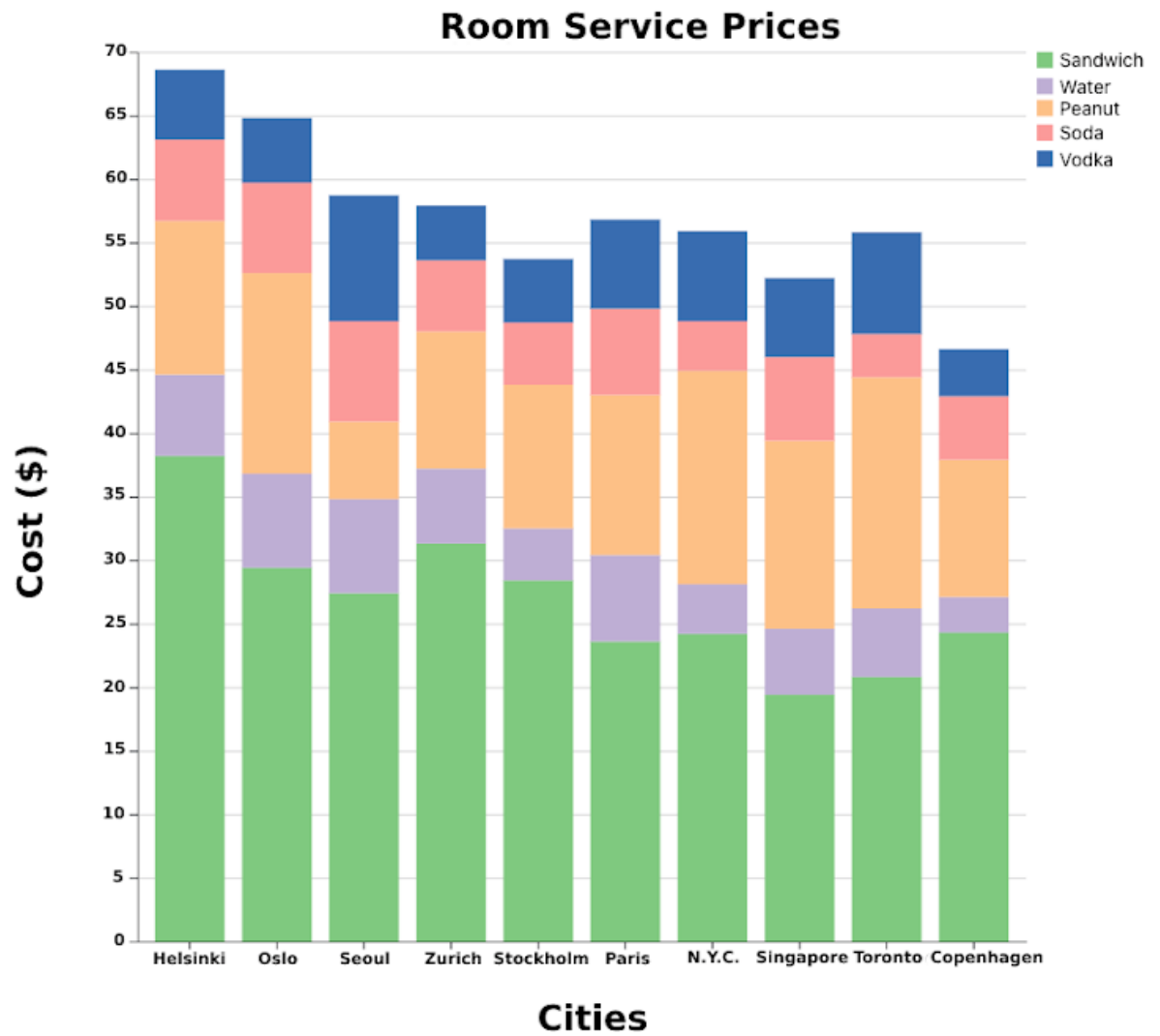
14. Which city's metro system has the largest number of stations?



Mark only one oval.

- ☐ Beijing
- ☐ Shanghai
- ☐ London
- ☐ Seoul

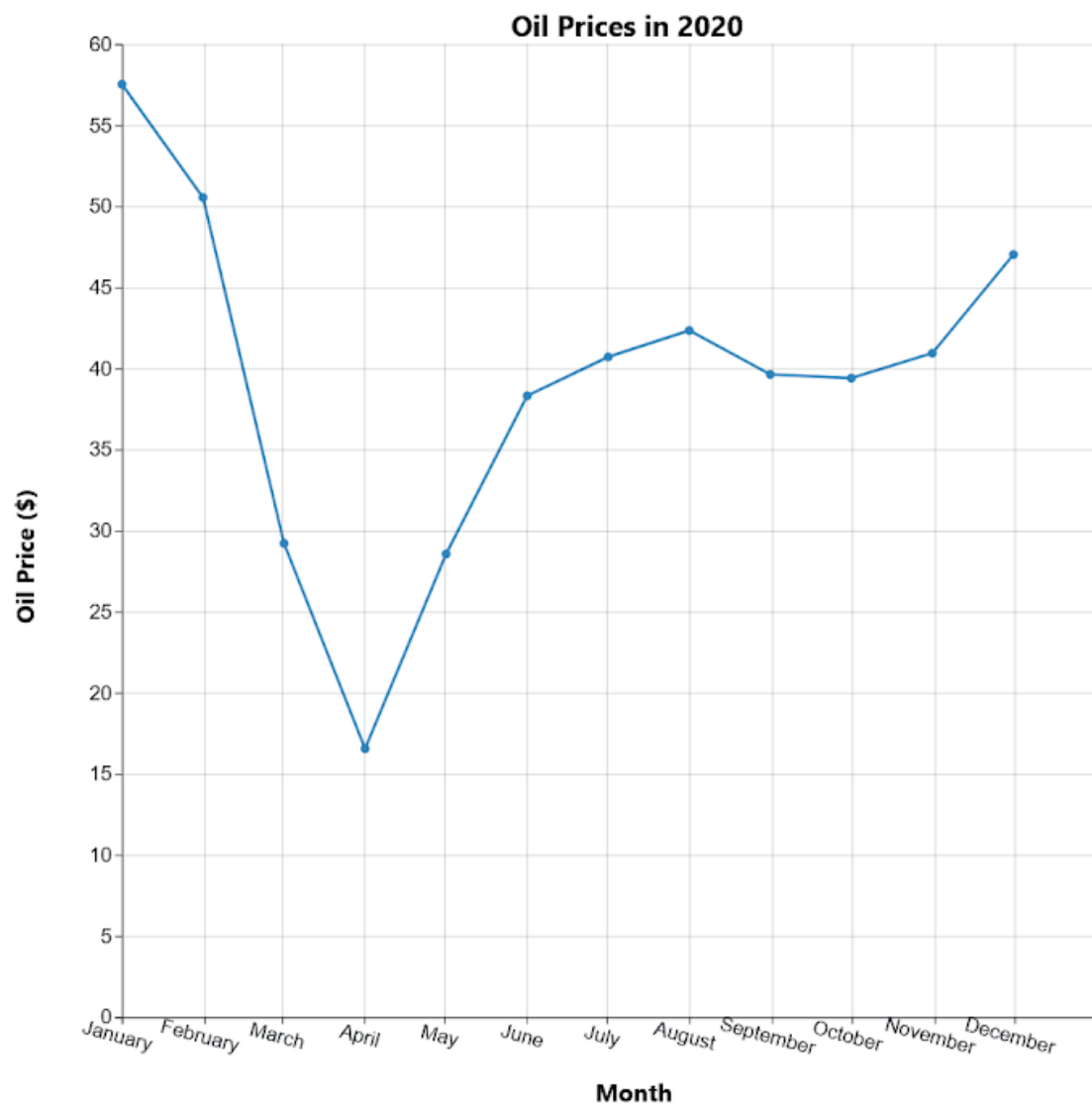
15. What is the cost of peanuts in Seoul?



Mark only one oval.

- ☐ \$5.2
- ☐ \$6.1
- ☐ \$7.5
- ☐ \$4.5

16. What was the price of a barrel of oil in February 2020?



Mark only one oval.

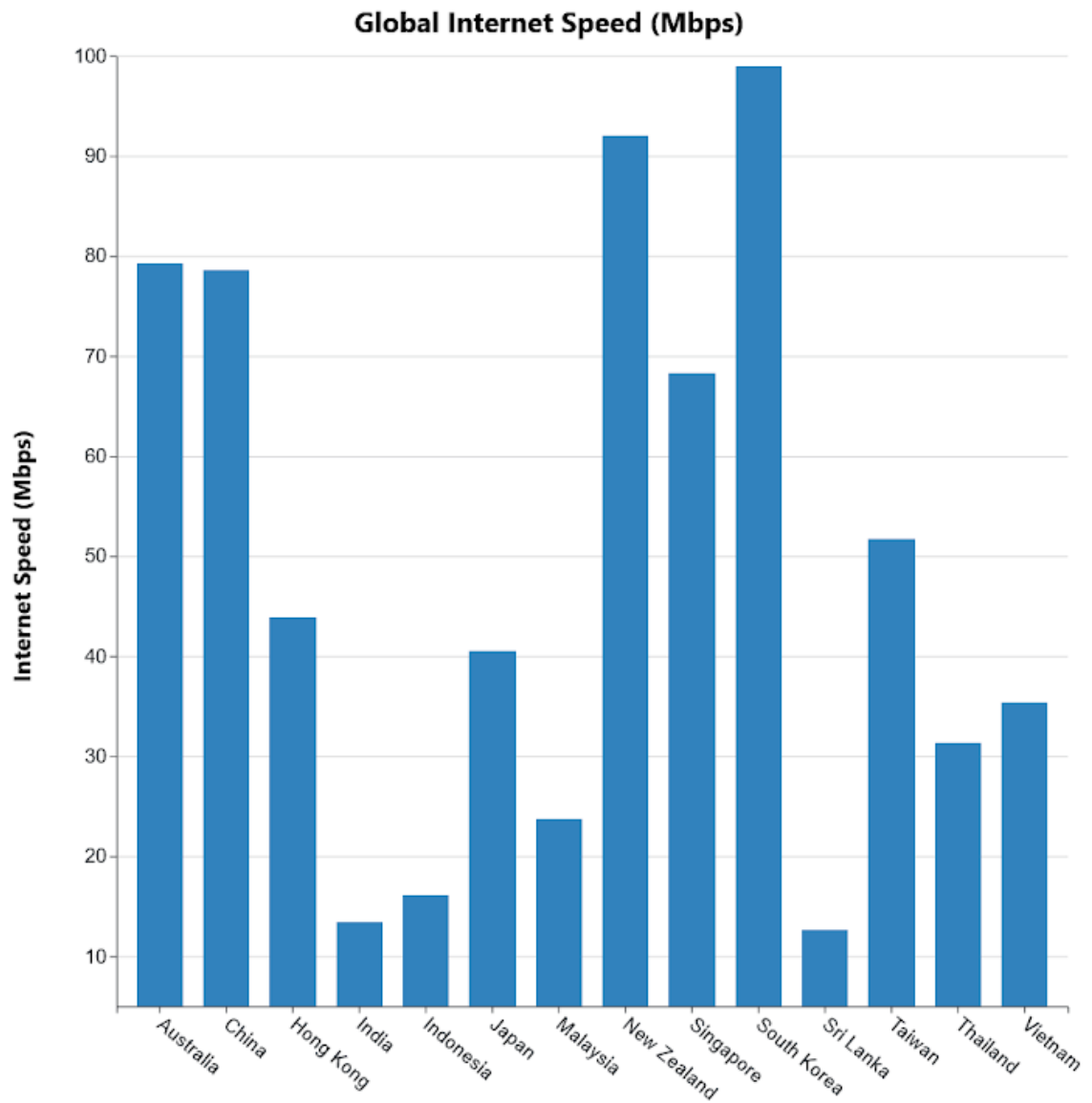
☐ \$50.54

☐ \$47.02

☐ \$42.34

☐ \$43.48

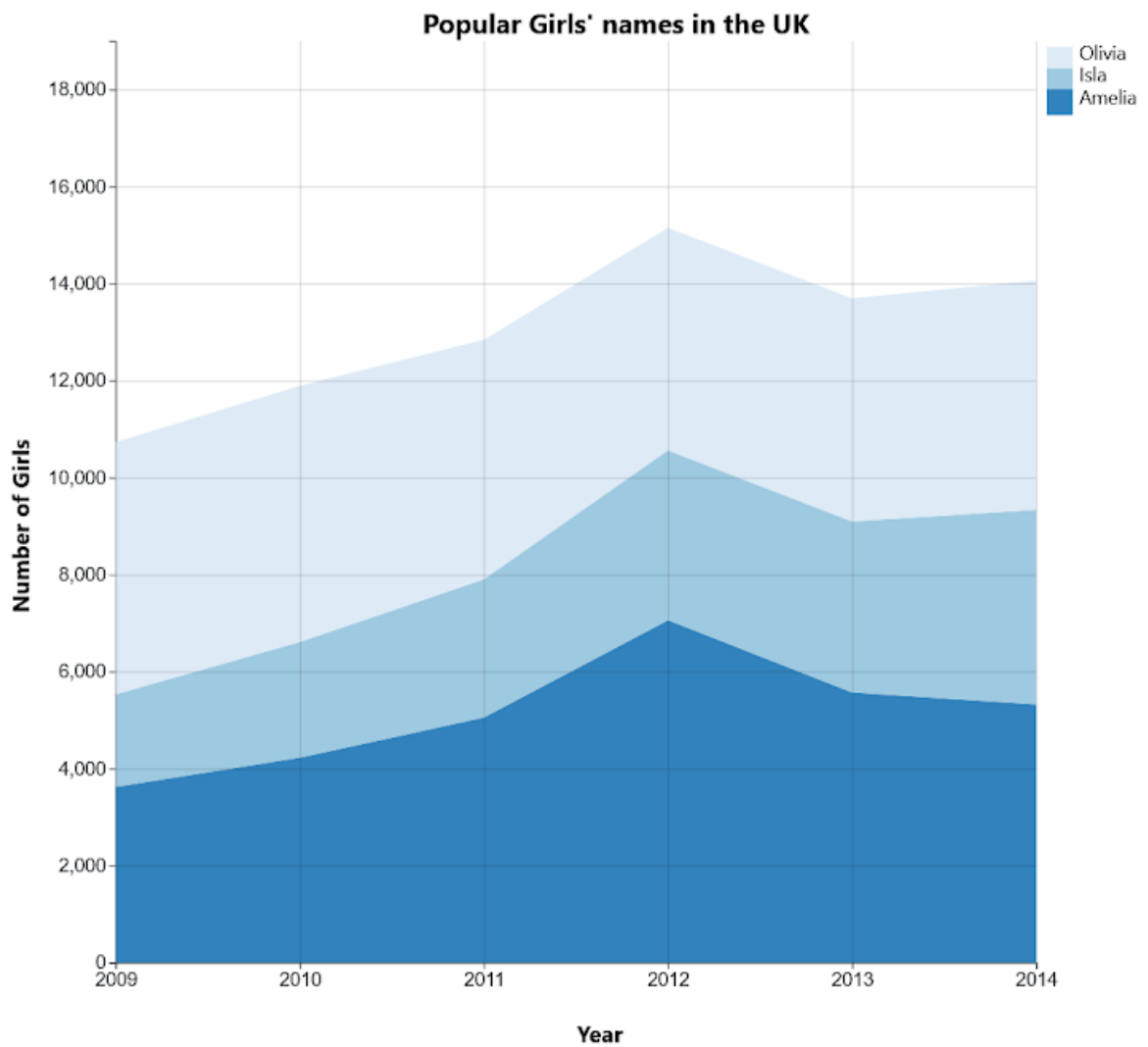
17. What is the average internet speed in Japan?



Mark only one oval.

- ☐ 42.30 Mbps
- ☐ 40.51 Mbps
- ☐ 35.25 Mbps
- ☐ 16.16 Mbps

18. What was the ratio of girls named "Isla" to girls named "Amelia" in 2012 in the UK?



Mark only one oval.

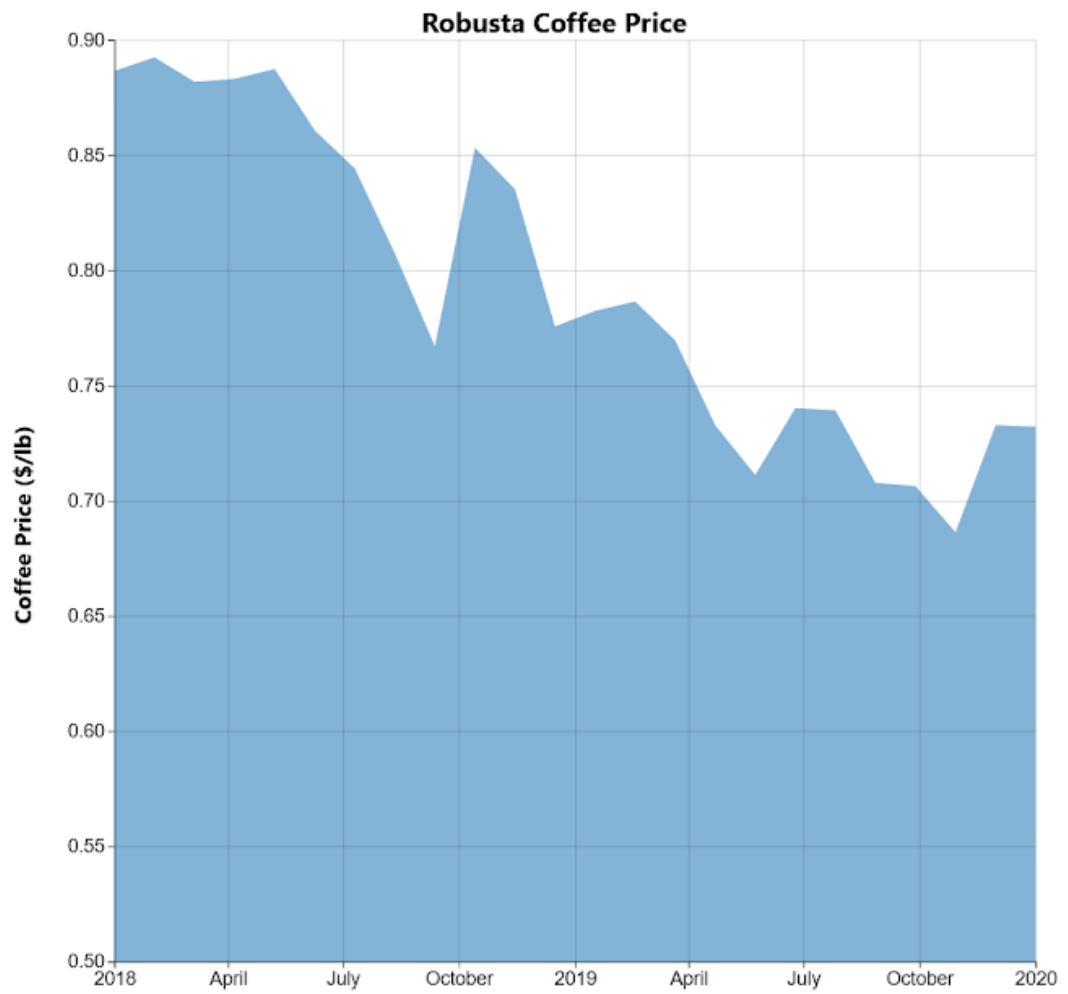
☐ 1 to 1

☐ 1 to 2

☐ 1 to 3

☐ 1 to 4

19. What was the average price of a pound of coffee in October 2019?



Mark only one oval.

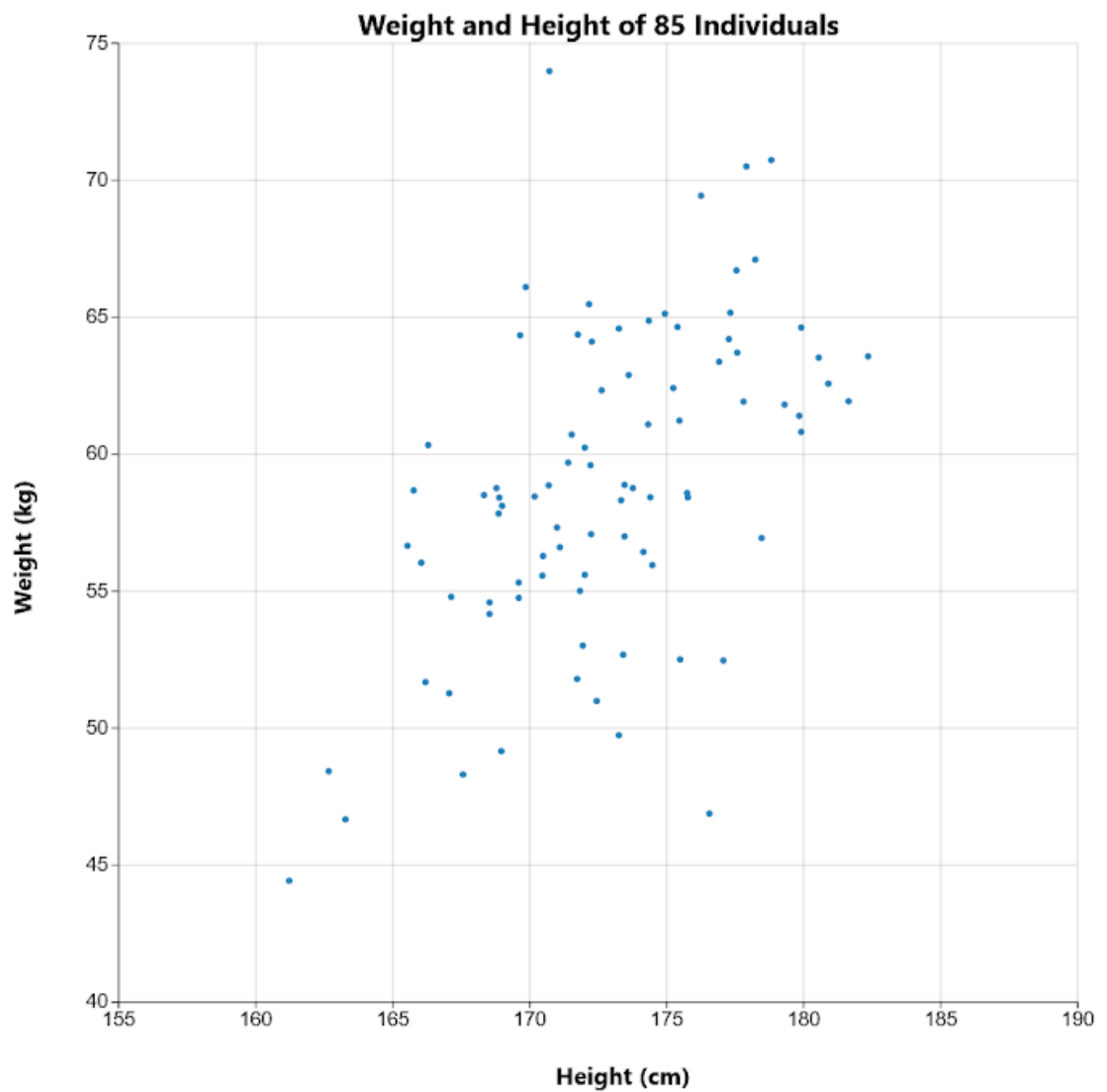
☐ \$0.71

☐ \$0.90

☐ \$0.80

☐ \$0.63

20. There is a negative relationship between the height and the weight of the 85 males.



Mark only one oval.

☐ True

☐ False

Task 1

21. How many different teams are listed in the dataset?

22. How confident are you that you have answered the above question well (correctly, completely, etc.)?

Mark only one oval.

[illegible]

23. I understand how the solution was derived.

Mark only one oval.

[illegible]

24. The tool was useful for this task.

Mark only one oval.

[illegible]

25. Provide one aspect to clarify the assessment of usefulness.

26. I had control over the outcome.

Mark only one oval.

[illegible]

27. I could have solved this task better with a different tool.

Mark only one oval.

[illegible]

28. (Optional) With which tool?

29. (Optional) Additional Remarks

Task 2

30. Which team has won the most playoff games? Provide the teamname.

31. How confident are you that you have answered the above question well (correctly, completely, etc.)?

Mark only one oval.

[illegible]

32. I understand how the solution was derived.

Mark only one oval.

[illegible]

33. The tool was useful for this task.

Mark only one oval.

[illegible]

34. Provide one aspect to clarify the assessment of usefulness.

35. I had control over the outcome.

Mark only one oval.

[illegible]

36. I could have solved this task better with a different tool.

Mark only one oval.

[illegible]

37. (Optional) With which tool?

38. (Optional) Additional Remarks

Task 3

Visualize the win rate of this team (see last task) across all seasons. Win rate is the ratio of the number of wins to the total number of games or matches played by a team.

39. How confident are you that you have answered the above question well (correctly, completely, etc.)?

Mark only one oval.

[illegible]

40. I understand how the solution was derived.

Mark only one oval.

[illegible]

41. The tool was useful for this task.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

42. Provide one aspect to clarify the assessment of usefulness.

43. I had control over the outcome.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

44. I could have solved this task better with a different tool.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

45. (Optional) With which tool?

46. (Optional) Additional Remarks

Task 4

Create a visualization with the following specifications:

Visualization Type: Histogram of Team Win Rates

Data to be Used:

- **Data for Bins:** Winning percentages (Ratio of won games and total games) grouped into classes (bins) with a size of 0.1.
- **Data for Height of Bins:** The height of each bin represents the number of teams that fall within the respective winning percentage class.

Histogram Details:

1. **X-axis:** Win Rate Classes - Equally spaced categories representing ranges of win rates.
2. **Y-axis:** Number of Teams - The count of team instances that fall into each win rate class.
3. **Bins:** The histogram has distinct bins for each win rate class, with the width of each bin being uniform across all classes.

Coloring Scheme:

- Use a color gradient where the brightness corresponds to the number of teams in each bin: darker colors for bins with fewer teams and brighter colors for bins with more teams.

47. How confident are you that you have answered the above question well (correctly, completely, etc.)?

Mark only one oval.

[illegible]

48. I understand how the solution was derived.

Mark only one oval.

[illegible]

49. The tool was useful for this task.

Mark only one oval.

[illegible]

50. Provide one aspect to clarify the assessment of usefulness.

51. I had control over the outcome.

Mark only one oval.

[illegible]

52. I could have solved this task better with a different tool.

Mark only one oval.

[illegible]

53. (Optional) With which tool?

54. (Optional) Additional Remarks

Task 5

55. Which team is the most successful? Provide the teamname.

Justify your selection with visualizations (multiple visualizations are possible)

56. How confident are you that you have answered the above question well (correctly, completely, etc.)?

Mark only one oval.

[illegible]

57. I understand how the solution was derived.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

58. The tool was useful for this task.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

59. Provide one aspect to clarify the assessment of usefulness.

60. I could have solved this task better with a different tool.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

61. (Optional) With which tool?

62. Without the tool, I would have pursued a different approach to solving the problem.

Mark only one oval.

[illegible]

63. (Optional) Additional Remarks

Task 6

64. How do games in the 1980s differ from games in the 2000s?

Justify your selection with visualizations (multiple visualizations are possible).

65. How confident are you that you have answered the above question well (correctly, completely, etc.)?

Mark only one oval.

[illegible]

66. I understand how the solution was derived.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

67. The tool was useful for this task.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

68. Provide one aspect to clarify the assessment of usefulness.

69. I could have solved this task better with a different tool.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

70. (Optional) With which tool?

71. Without the tool, I would have pursued a different approach to solving the problem.

Mark only one oval.

	1	2	3	4	5	6	7	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

72. (Optional) Additional Remarks

Task 7

Document an interesting insight about the data that you obtained while using the tool.

73. I have gained the following insight

74. (Optional) Additional Remarks

Questions about usability

75. I think that I would like to use this system frequently.

Mark only one oval.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

76. I found the system unnecessarily complex.

Mark only one oval.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

77. I thought the system was easy to use.

Mark only one oval.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

78. I think that I would need the support of a technical person to be able to use this system.

Mark only one oval.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

79. I found the various functions in this system were well integrated.

Mark only one oval.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

80. I thought there was too much inconsistency in this system.

Mark only one oval.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

81. I would imagine that most people would learn to use this system very quickly.

Mark only one oval.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

82. I found the system very cumbersome to use.

Mark only one oval.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

87. I have learned a lot about data analysis

Mark only one oval.

[illegible]

88. (Regarding the previous question) What have you learned? Provide one aspect.

89. I have learned a lot about visualization.

Mark only one oval.

[illegible]

90. (Regarding the previous question) What have you learned? Provide one aspect.

91. The tool encouraged me to explore additional aspects.

Mark only one oval.

[illegible]

92. (Optional) General Feedback:

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