Bar graphs and line graphs: rates and percent change worksheet – Grade 7

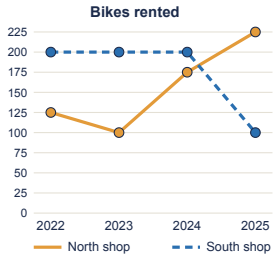
Grade 7 · Mixed level · 20 questions · **Version X8789**

Name: _____ Date: _____ Score: ___ / 20

Scan to check answers + earn stars

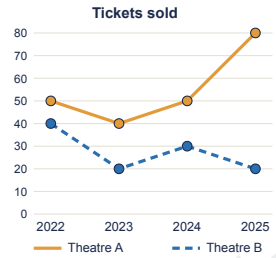
Done the worksheet? Scan the code (or enter version X8789 on this skill's page at themathmeridian.com) to check your answers online and earn stars.

1. What is North shop's value in 2023?



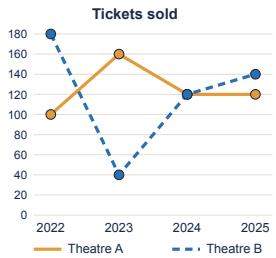
Answer: _____

2. Work out the mean for Theatre A.



Answer: _____

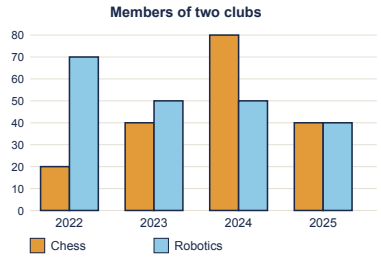
3. Find the change in Theatre A from 2024 to 2025. Use a minus sign for a drop.



Answer: _____

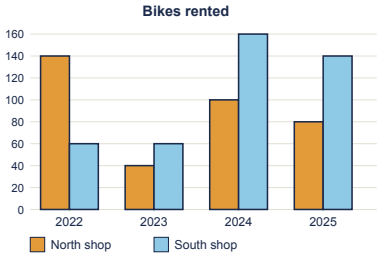
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4. Work out the mean for Chess.



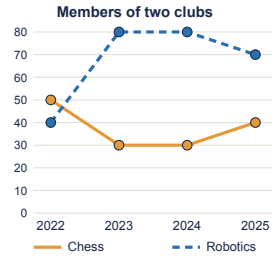
Answer: _____

5. Work out the mean for North shop.



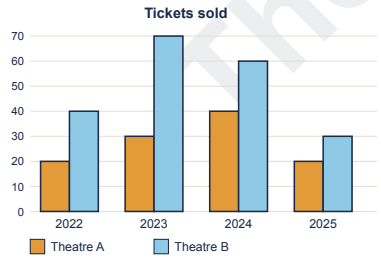
Answer: _____

6. Find the mean for Chess.



Answer: _____

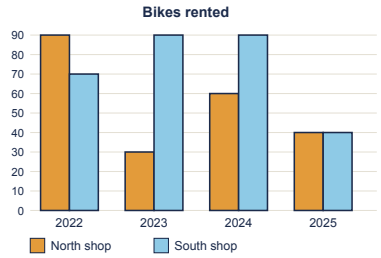
7. What is the mean for Theatre A?



Answer: _____

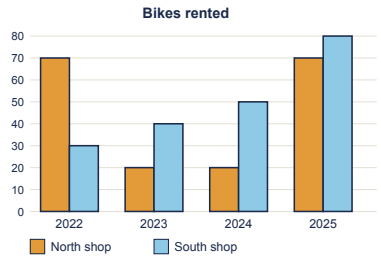
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8. Find the average change per year for North shop from 2022 to 2025. Use a minus sign for a drop, to one decimal place.



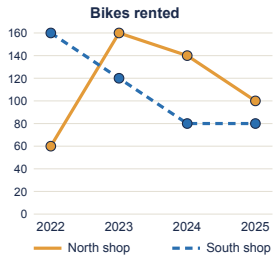
Answer: _____

9. What is the percent change in North shop from 2022 to 2023, to the nearest percent? Use a minus sign for a drop.



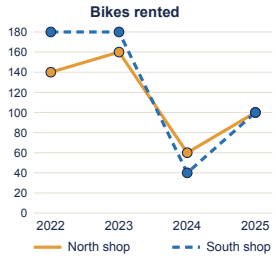
Answer: _____

10. Work out the percent change in North shop from 2024 to 2025, to the nearest percent. Use a minus sign for a drop.



Answer: _____

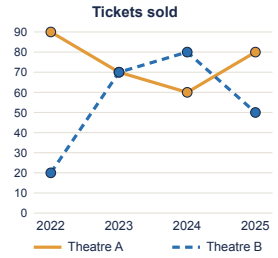
11. In 2024, what fraction of the total for both is North shop? Write it in lowest terms.



Answer: _____

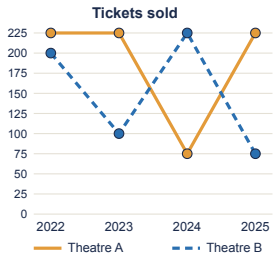
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12. What is the percent change in Theatre A from 2023 to 2024, to the nearest percent? Use a minus sign for a drop.



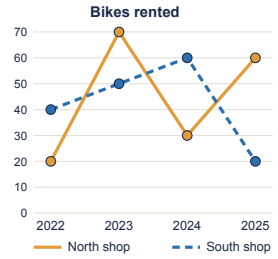
Answer: _____

13. How much greater is the larger total than the smaller?



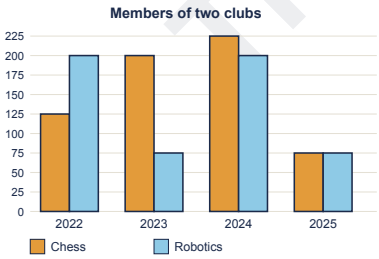
Answer: _____

14. How much greater is the larger total than the smaller?



Answer: _____

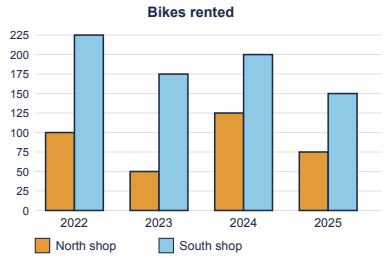
15. In which year are the two groups furthest apart?



A. 2022 **B.** 2023 **C.** 2024 **D.** 2025

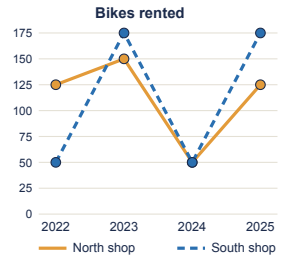
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16. If North shop changes by the same amount as its last step, what would 2026 show?



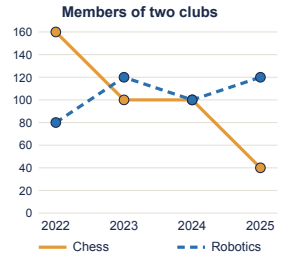
Answer: _____

17. Each North shop sale earns 4 dollars. How much did North shop earn over the four years, in dollars?



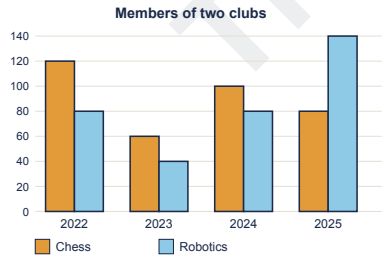
Answer: $_____

18. Each Chess sale earns 3 dollars. How much did Chess earn over the four years, in dollars?



Answer: $_____

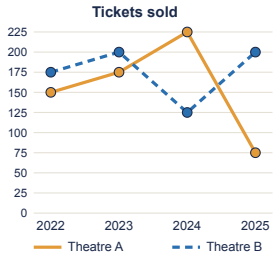
19. Find the percent of the four-year total of Chess that came in 2025, to the nearest percent.



Answer: _____

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20. Each Theatre A sale earns 5 dollars. How much did Theatre A earn over the four years, in dollars?



Answer: $_____

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Answer key · Version X8789

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1. **100**
2. **55**
3. **0**
4. **45**
5. **90**
6. **37.5**
7. **27.5**
8. **-16.7**
9. **-71%**
10. **-29%**
11. **3/5**
12. **-14%**
13. **150**
14. **10**
15. **B (2023)**
16. **25**
17. **1800**
18. **1200**
19. **22%**
20. **3125**

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