Histograms and relative frequency worksheet – Grade 8

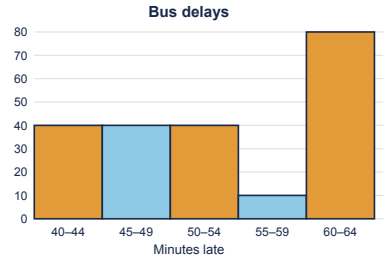
Grade 8 · Mixed level · 20 questions · **Version X6807**

Name: _____ Date: _____ Score: ___ / 20

Scan to check answers + earn stars

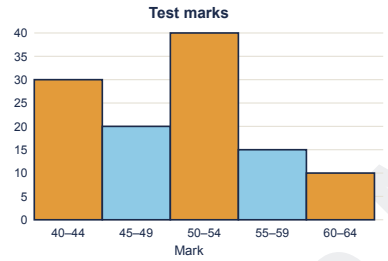
Done the worksheet? Scan the code (or enter version X6807 on this skill's page at themathmeridian.com) to check your answers online and earn stars.

1. What percent of the buses are in the 60–64 interval, to the nearest percent?



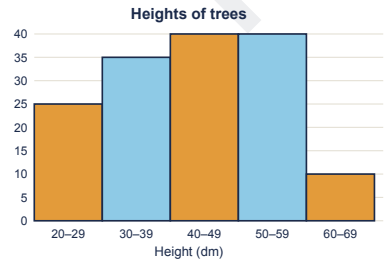
Answer: _____

2. How many students are represented altogether?



Answer: _____

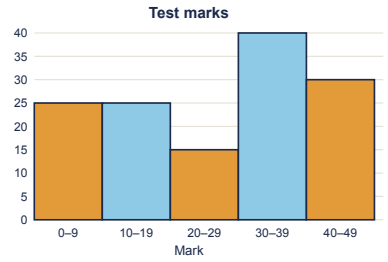
3. How wide is each interval?



Answer: _____

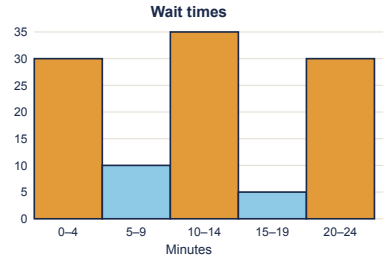
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4. What is the relative frequency of 0–9, in lowest terms?



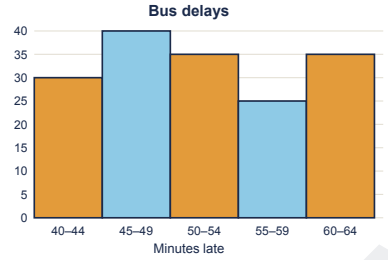
Answer: _____

5. Find the relative frequency of 15–19, in lowest terms.



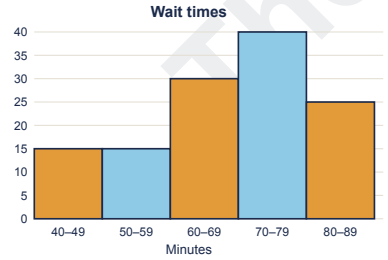
Answer: _____

6. How many buses are represented altogether?



Answer: _____

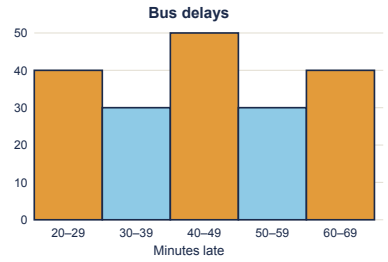
7. How many customers are represented altogether?



Answer: _____

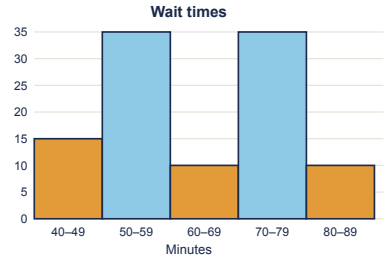
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8. What percent of the buses are in 20–29 or below, to the nearest percent?



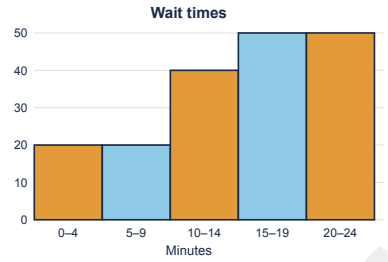
Answer: _____

9. Work out the cumulative frequency up to the end of 50–59.



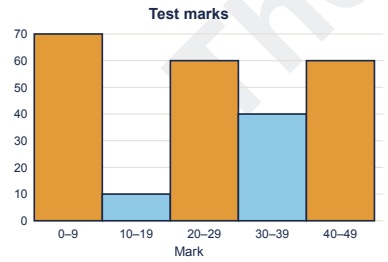
Answer: _____

10. What percent of the customers are in 10–14 or below, to the nearest percent?



Answer: _____

11. What is the cumulative frequency up to the end of 30–39?



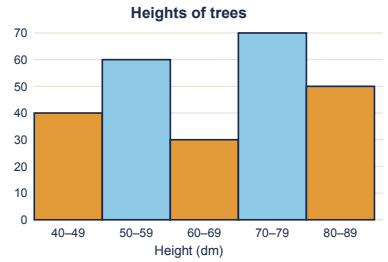
Answer: _____

12. What shape best describes data with most of the bars on the left and a long tail to the right?

A. Skewed right **B.** Skewed left **C.** Symmetric **D.** Uniform

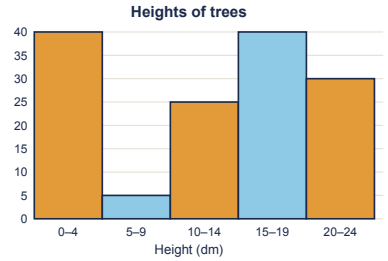
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13. What percent of the trees are in 60–69 or below, to the nearest percent?



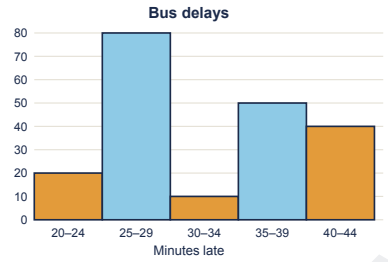
Answer: _____

14. Which interval contains the median?



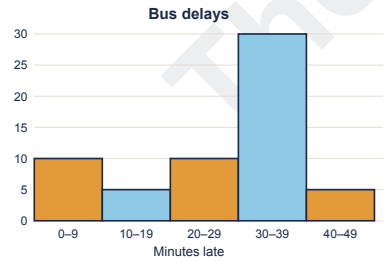
A. 0–4 **B.** 5–9 **C.** 10–14 **D.** 15–19 **E.** 20–24

15. What percent of the buses are above 20–24, to the nearest percent?



Answer: _____

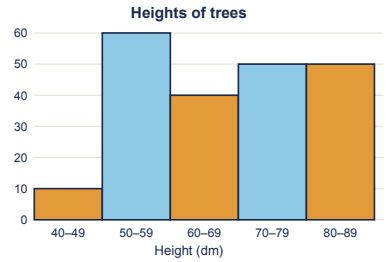
16. Use midpoints to estimate the mean, to one decimal place.



Answer: _____

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17. What percent of the trees are above 60–69, to the nearest percent?

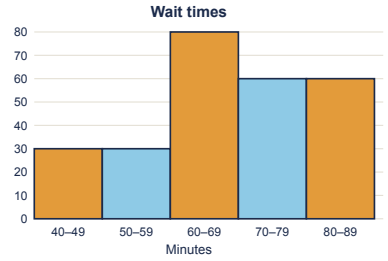


Answer: _____

18. In a data set skewed right, which is usually greater?

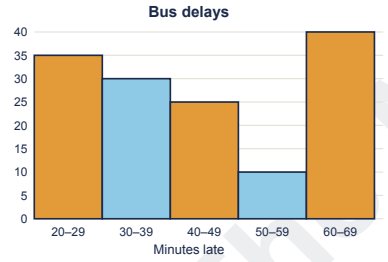
A. The mean **B.** The median **C.** They are always equal **D.** The minimum

19. What percent of the customers are above 80–89, to the nearest percent?



Answer: _____

20. The whole group is 2 times as large with the same shape. How many buses would be in 60–69?



Answer: _____

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Answer key · Version X6807

Histograms and relative frequency worksheet – Grade 8 · Grade 8 · to reprint this sheet or check the answers, enter X6807 on the skill page.

1. **38%**
2. **115**
3. **10**
4. **5/27**
5. **1/22**
6. **165**
7. **125**
8. **21%**
9. **50**
10. **44%**
11. **180**
12. **A (Skewed right)**
13. **52%**
14. **D (15–19)**
15. **90%**
16. **27**
17. **48%**
18. **A (The mean)**
19. **0%**
20. **80**

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