Box plots, histograms and skew worksheet – Grade 10

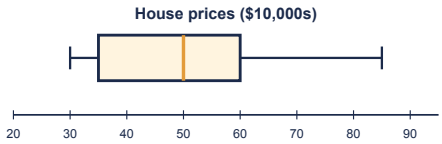
Grade 10 · Mixed level · 20 questions · **Version X5174**

Name: _____ Date: _____ Score: ___ / 20

Scan to check answers + earn stars

Done the worksheet? Scan the code (or enter version X5174 on this skill's page at themathmeridian.com) to check your answers online and earn stars.

1. Work out the IQR.

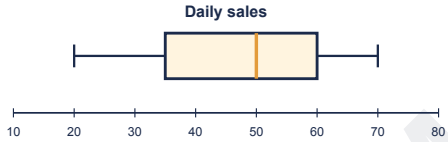


Answer: _____

2. Which measure of centre resists very large values?

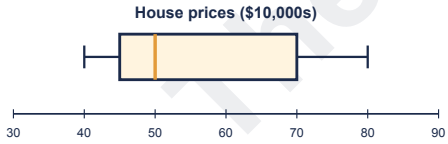
A. Median **B.** Mean **C.** Maximum **D.** Range

3. What is the IQR?



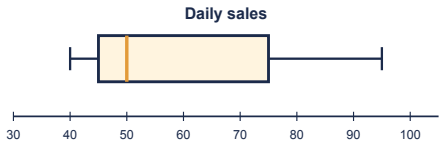
Answer: _____

4. Find the median.



Answer: _____

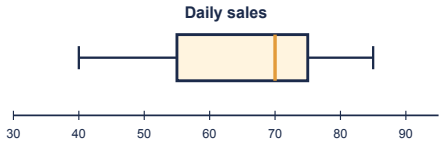
5. Work out the median.



Answer: _____

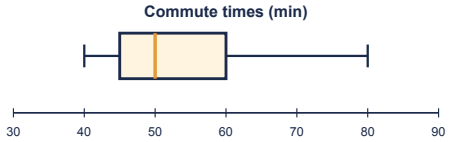
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6. What is the median?



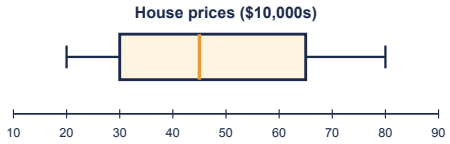
Answer: _____

7. Find the IQR.



Answer: _____

8. What is the shape of this box plot?



A. Right-skewed **B.** Left-skewed **C.** Roughly symmetric

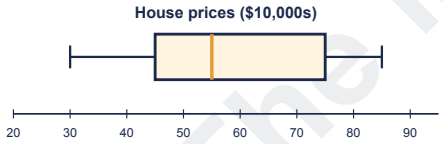
9. A data set is right-skewed. Which is usually true?

A. Mean > median **B.** Mean < median **C.** Mean = median **D.** Mean = 0

10. Which should a real estate site report for typical house prices?

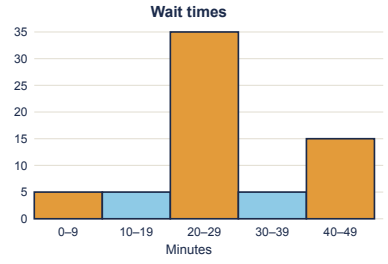
A. The median **B.** The mean **C.** The maximum **D.** The sum

11. Work out the shape of this box plot.



A. Right-skewed **B.** Left-skewed **C.** Roughly symmetric

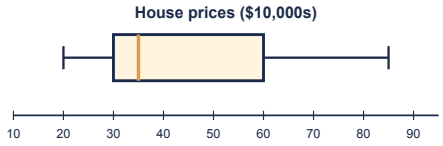
12. What percent of people waited under 20 minutes, to the nearest percent?



Answer: _____

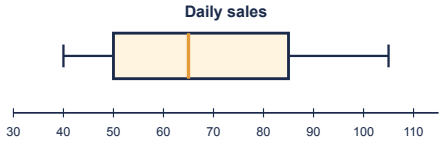
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13. Find the shape of this box plot.



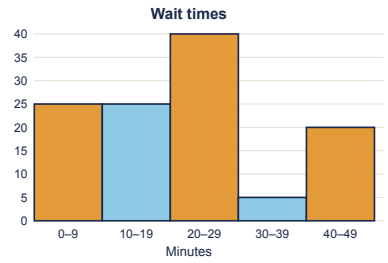
A. Right-skewed **B.** Left-skewed **C.** Roughly symmetric

14. Find the shape of this box plot.



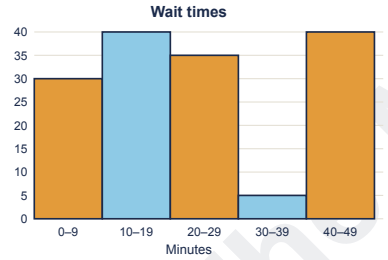
A. Right-skewed **B.** Left-skewed **C.** Roughly symmetric

15. Estimate the mean wait from this histogram, using midpoints, to one decimal place.



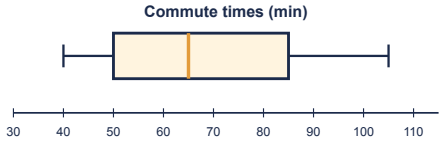
Answer: _____

16. Which interval has the median?



A. 0–9 **B.** 10–19 **C.** 20–29 **D.** 30–39 **E.** 40–49

17. Using Q3 + 1.5 × IQR, what is the upper fence?



Answer: _____

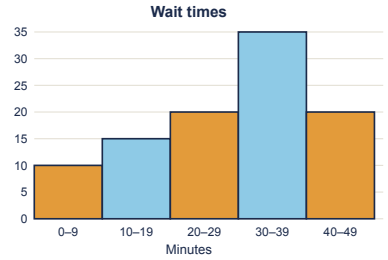
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18. Is 89 an outlier here, using Q3 + 1.5 × IQR?



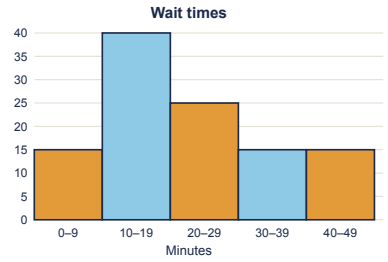
A. Yes **B.** No

19. Estimate the mean wait from this histogram, using midpoints, to one decimal place.



Answer: _____

20. Which interval has the median?



A. 0–9 **B.** 10–19 **C.** 20–29 **D.** 30–39 **E.** 40–49

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Answer key · Version X5174

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1. **25**
2. **A (Median)**
3. **25**
4. **50**
5. **50**
6. **70**
7. **15**
8. **A (Right-skewed)**
9. **A (Mean > median)**
10. **A (The median)**
11. **A (Right-skewed)**
12. **15%**
13. **A (Right-skewed)**
14. **A (Right-skewed)**
15. **21.9**
16. **C (20–29)**
17. **137.5**
18. **A (Yes)**
19. **28.5**
20. **C (20–29)**

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