Histograms and frequency tables worksheet – Grade 7

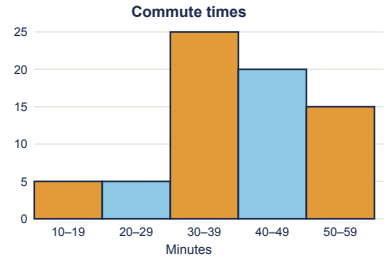
Grade 7 · Mixed level · 20 questions · **Version X7837**

Name: _____ Date: _____ Score: ___ / 20

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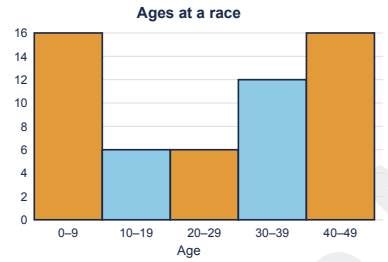
Done the worksheet? Scan the code (or enter version X7837 on this skill's page at themathmeridian.com) to check your answers online and earn stars.

1. How many people are below 30?



Answer: _____

2. How many runners are in the 0–9 interval?



Answer: _____

3. Find the midpoint of the 40–49 interval.

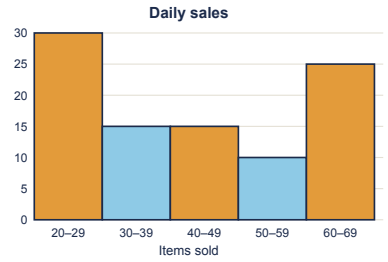
Ages at a race

Age	Frequency
10–19	40
20–29	20
30–39	40
40–49	30
50–59	20

Answer: _____

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4. How many days are in the 30–39 interval?



Answer: _____ days

5. How many days are below 10?

Daily sales

Items sold	Frequency
10–19	20
20–29	20
30–39	24
40–49	32
50–59	32

Answer: _____ days

6. How many days are there altogether?

Daily sales

Items sold	Frequency
20–29	30
30–39	30
40–49	25
50–59	40
60–69	35

Answer: _____ days

7. How many runners are there altogether?

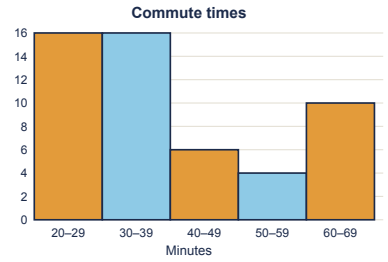
Ages at a race

Age	Frequency
0–9	4
10–19	2
20–29	8
30–39	8
40–49	6

Answer: _____

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8. What is the relative frequency of 60–69, as a fraction in lowest terms?



Answer: _____

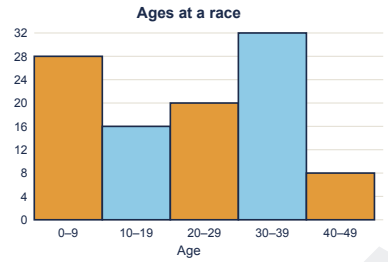
9. Work out the cumulative frequency up to the end of 30–39.

Ages at a race

Age	Frequency
10–19	35
20–29	35
30–39	10
40–49	25
50–59	20

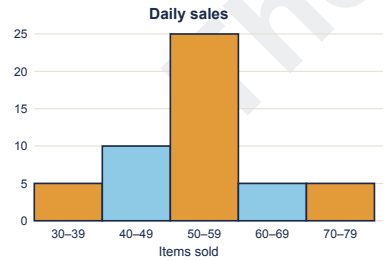
Answer: _____

10. What percent of the runners are in the 20–29 interval, to the nearest percent?



Answer: _____

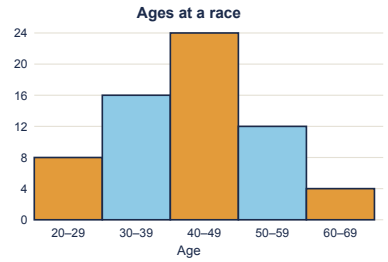
11. Find the cumulative frequency up to the end of 50–59.



Answer: _____

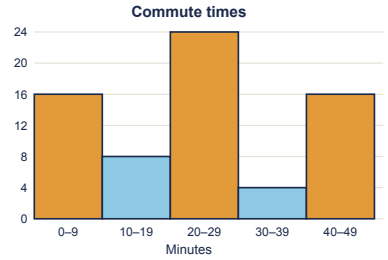
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12. Find the relative frequency of 40–49, as a fraction in lowest terms.



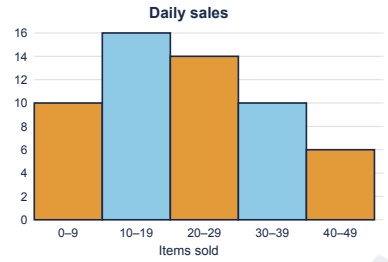
Answer: _____

13. Which interval contains the median?



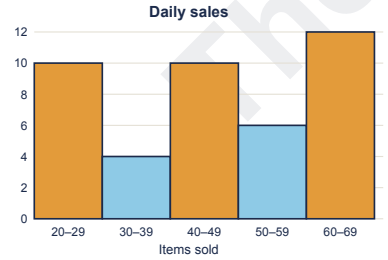
A. 0–9 **B.** 10–19 **C.** 20–29 **D.** 30–39 **E.** 40–49

14. What percent of the days are in the 10–19 interval, to the nearest percent?



Answer: _____

15. What percent of the days are in 20–29 or higher, to the nearest percent?



Answer: _____

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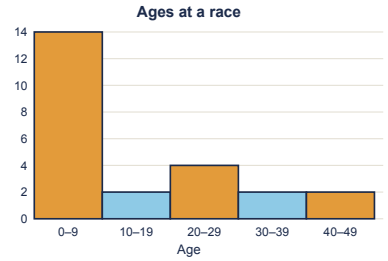
16. What percent of the runners are in 0–9 or higher, to the nearest percent?

Ages at a race

Age	Frequency
0–9	20
10–19	4
20–29	24
30–39	20
40–49	32

Answer: _____

17. Why is a mean found from a histogram only an estimate?



A. The exact values are not shown **B.** The bars are too tall **C.** Means need percents

D. Intervals are always wrong

18. Using midpoints, estimate the mean to one decimal place.

Daily sales

Items sold	Frequency
20–29	25
30–39	10
40–49	10
50–59	35
60–69	35

Answer: _____

19. What percent of the days are in 30–39 or higher, to the nearest percent?

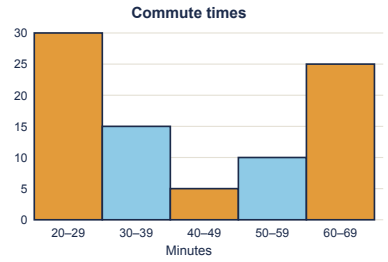
Daily sales

Items sold	Frequency
30–39	10
40–49	30
50–59	20
60–69	30
70–79	40

Answer: _____

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20. What percent of the people are in 60–69 or higher, to the nearest percent?



Answer: _____

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Answer key · Version X7837

Histograms and frequency tables worksheet – Grade 7 · Grade 7 · to reprint this sheet or check the answers, enter X7837 on the skill page.

1. **10**
2. **16**
3. **44.5**
4. **15**
5. **0**
6. **160**
7. **28**
8. **5/26**
9. **80**
10. **19%**
11. **40**
12. **3/8**
13. **C (20–29)**
14. **29%**
15. **100%**
16. **100%**
17. **A (The exact values are not shown)**
18. **48.4**
19. **100%**
20. **29%**

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