8-4 Additional Practice

In 1 and 2, use the data in the chart.

Annual Ticket Sales for Charity Ice-Skating Event							
72	81	88	51	90	89	85	74
87	100	80	99	87	96	99	84
84	86	94	88	91	85	78	90

1. Complete the frequency table below for the number of tickets sold each year for the charity event.

Tickets Sold	Tallies	Frequency
45–54		
55–64		
65–74		
75–84		
85–94		
95–104		

2. Use your frequency table to complete the histogram.

Tickets Sold for Charity Event

Number of Years: 12, 10, 8, 6, 4, 2, 0

Number of Tickets Sold: 45–54 55–64 65–74 75–84 85–94 95–104
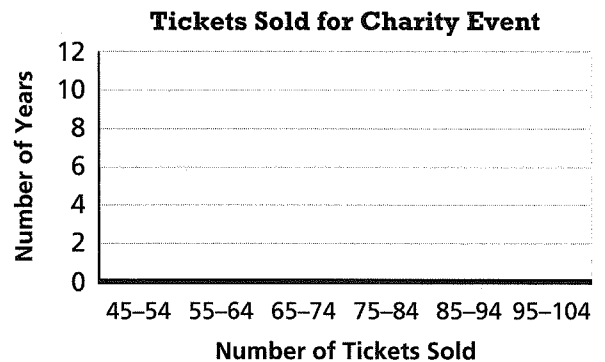
In 3–6, use the data in the frequency table. The frequency table shows the time it took students in a P.E. class to run 1 mile.

3. How many students are in the P.E. class?

4. How many students ran 1 mile in under 9 minutes?

5. How many fewer students ran 1 mile in under 10 minutes than students who took 11 or more minutes to run that distance?
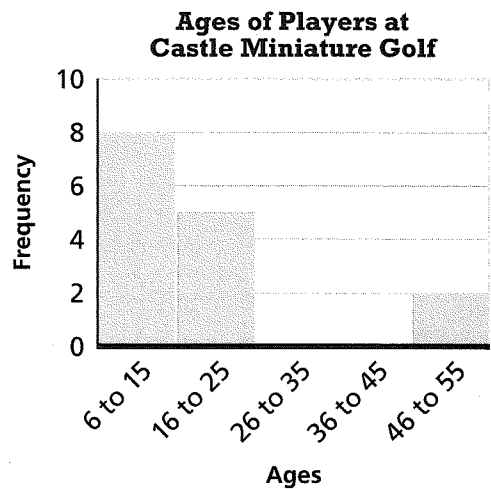
6. **Be Precise** Can you tell from the frequency table how many students, if any, ran a mile in exactly 12 minutes? Explain.

Time in Minutes	Tally	Frequency
8:00–8:59	ⅢⅡ I	6
9:00–9:59	II	2
10:00–10:59	ⅢⅡ III	8
11:00–11:59	ⅢⅡ I	6
12:00–12:59	ⅢⅡ IIII	9

In 7–9, use the chart below and the histogram at the right.

Ages of Players at Castle Miniature Golf

14	7	6	24	15
9	19	25	10	17
51	8	21	48	12

**Ages of Players at Castle Miniature Golf**

7. Just as Lilah finished making her histogram, a group of five people started playing. She wants to include their ages, which are 12, 12, 16, 26, and 48. How should Lilah change her histogram to include these ages?

8. **Reasoning** Lilah recorded the ages of the miniature golf players at 3:00 P.M. How might her data change if she recorded the ages of players at 7:00 P.M.?

9. **Higher Order Thinking** Suppose a 65-year-old brings her two granddaughters to play miniature golf. The granddaughters are both 5 years old. How can Lilah adjust the intervals to include these ages?

✓ Assessment Practice

10. Each day for a month, Bo timed himself to see how many free throws he could make in 60 seconds.

Bo's Free Throw Record
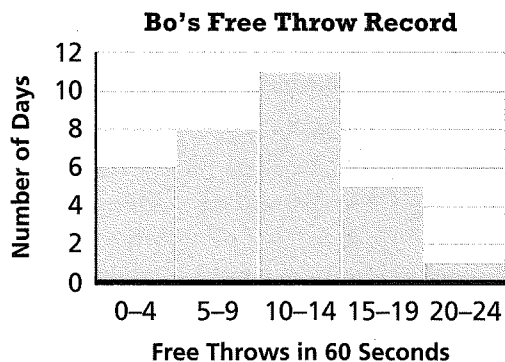
Using the histogram, select all of the true statements that describe Bo's data.

☐ There were 31 days in that month.

☐ Bo made 15–19 free throws 6 times.

☐ More than half of the days in the month, Bo made at least 10 shots.

☐ The greatest number of shots made in 60 seconds was between 10 and 14.

☐ Bo made fewer than 10 shots more often than he made more than 14 shots.

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