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PERIOD

12-7

Skills Practice

The Normal Distribution

Determine whether the data in each table appear to be positively skewed, negatively skewed, or normally distributed.

٠	Miles Run	Track Team Members
	0–4	3
	5–9	. 4
	10–14	- 7
	15–19	5 -
	20-23	2

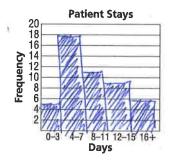
(2.)	Speeches Given	Political Candidates
	0–5.	1
	6–11	2
	12–17	3
	18–23	8
	24–29	8

normally distributed

negatively skewed

For Exercises 3 and 4, use the frequency table that shows the average number of days patients spent on the surgical ward of a hospital last year.

- 3. Make a histogram of the data.
- **4.** Do the data appear to be *positively* skewed, negatively skewed, or normally distributed? Explain.



Days	Number of Patients
0–3	5
4–7	18
8–11	11
12–15	9
16+	6



DELIVERY For Exercises 5-7, use the following information.

The time it takes a bicycle courier to deliver a parcel to his farthest customer is normally distributed with a mean of 40 minutes and a standard deviation of 4 minutes.

- 5. About what percent of the courier's trips to this customer take between 36 and 44 minutes?
- 6. About what percent of the courier's trips to this customer take between 40 and 48 minutes?
- 7. About what percent of the courier's trips to this customer take less than 32 minutes?

TESTING For Exercises 8-10, use the following information.

The average time it takes sophomores to complete a math test is normally distributed with a mean of 63.3 minutes and a standard deviation of 12.3 minutes.

- 8. About what percent of the sophomores take more than 75.6 minutes to complete the test?
- 9. About what percent of the sophomores take between 51 and 63.3 minutes?
- 10. About what percent of the sophomores take less than 63.3 minutes to complete the test?

