10.3 Shapes of Distribution

NAME _____

Date _____ Period _____

Vocabulary and Concept Check

1. **VOCABULARY** How does the shape of a symmetric distribution differ from the shape of a skewed distribution?

2. **VOCABULARY** For a distribution that is skewed right, which direction does the tail extend? Where do most of the data lie?

Make a dot plot of the data. In your own words, how would you describe the shape of the distribution?

3.

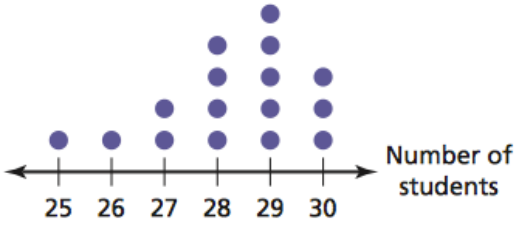
Miles Run per Day										
1	4	2	0	3	2	1	2	4	2	3
2	1	6	3	2	4	0	5	3	1	5

4.

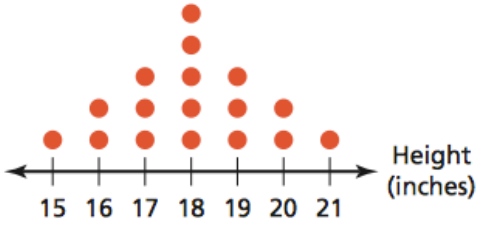
Raffle Tickets Sold							
15	12	16	15	13	14	16	13
13	16	14	12	15	12	14	

Describe the shape of each distribution.

5. Class Sizes



6. Heights of Plants



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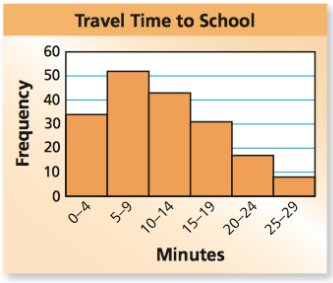

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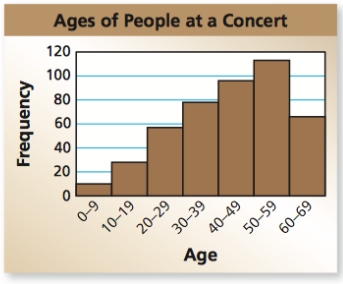

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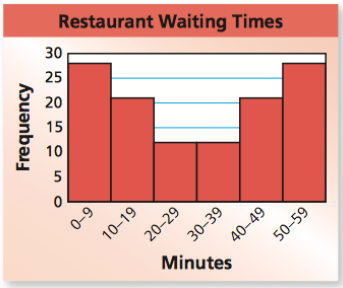
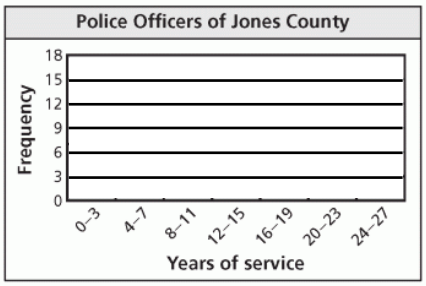
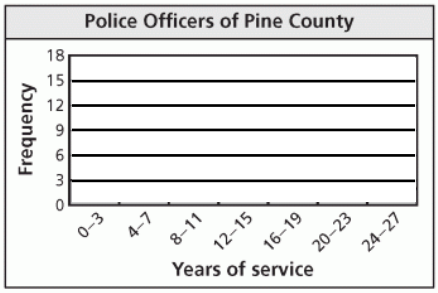


10. **POLICE** The frequency table shows the years of service for the police officers of Jones County and Pine County. Display the data for each county in a histogram. Describe the shape of each distribution. Which county's police force has less experience? Explain.

Years of Service	0–3	4–7	8–11	12–15	16–19	20–23	24–27
Frequency for Jones County	7	15	17	12	8	5	3
Frequency for Pine County	3	5	9	14	10	6	2





11. **CHARITY** The table shows the donation amounts received by a charity in one day.

Donations (dollars)												
20	15	40	70	20	~~5~~	25	50	47	20	62	55	40
~~10~~	50	18	20	100	40	80	60	20	80	~~3~~	30	50
25	30	~~10~~	33	20	50	~~7~~	35	40	25	70		

a. Fill in the frequency table with the data above. Follow the example.

Intervals	0 – 14	15 – 29	30 – 44	45 – 59	60 – 74	75 – 89	90 – 104
Tallies	𝍸						
Totals	5						

b. Make a histogram of the data. Then, describe the shape of the distribution.