

NAME: _____ PERIOD: _____ DATE: _____

Homework Problem Set

For Problems 1–3, use the data set below, creating one of each type of graph. You don’t have to use all the data for each graph. For example, you could focus on the players’ heights in one graph and age in a different graph. In Problem 4, you’ll graph the salary in millions of dollars with the age of the players. The graph is set up for you.

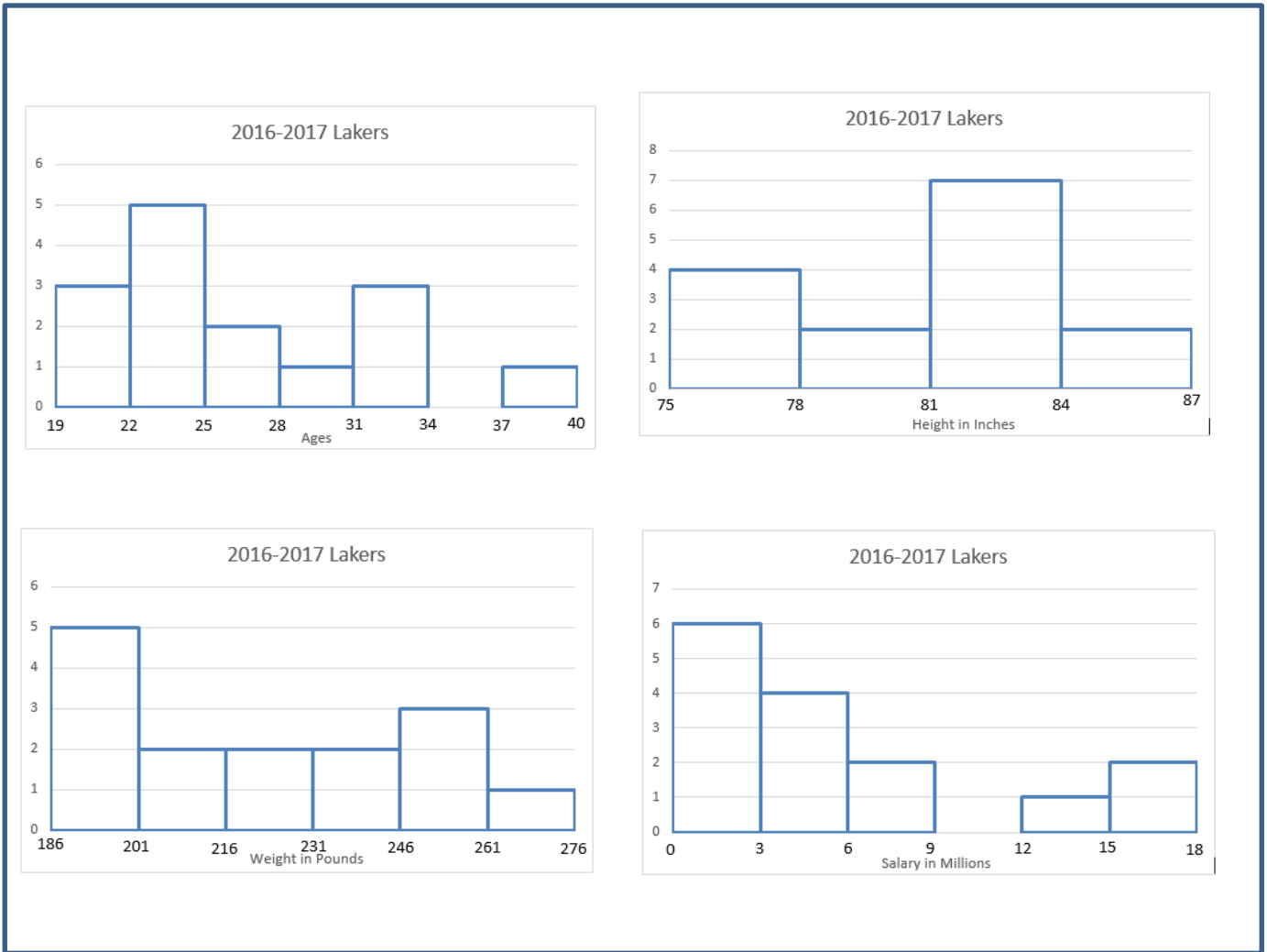


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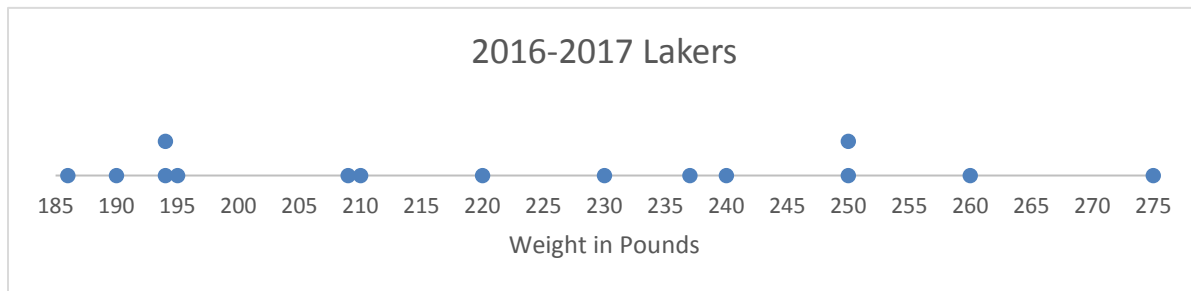
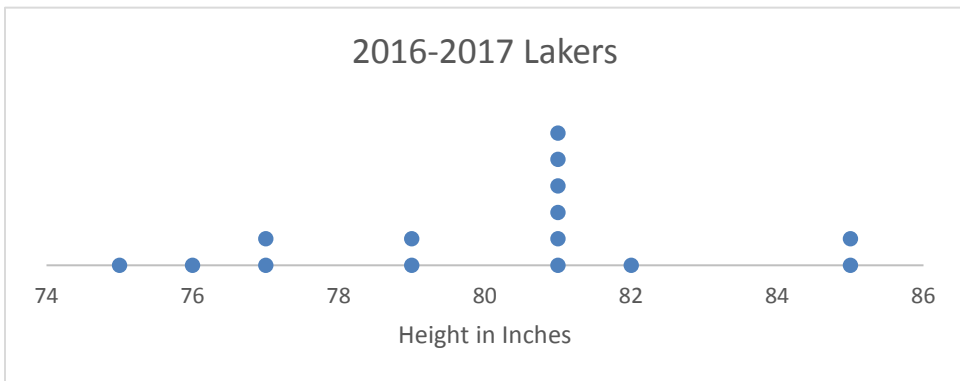
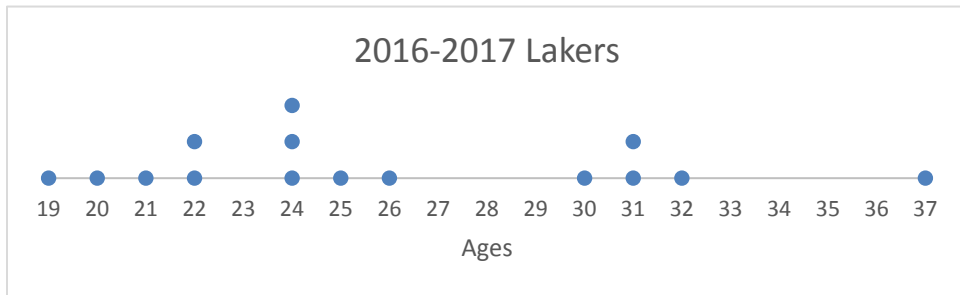
Team Roster							
No.	Name	Pos	Age	HT	WT	College	2016–2017 Salary
28	Tarik Black	C	25	6-9	250	Kansas	\$6,191,000
3	Corey Brewer	SF	31	6-9	186	Florida	\$7,612,172
6	Jordan Clarkson	PG	24	6-5	194	Missouri	\$12,500,000
9	Luol Deng	SF	32	6-9	220	Duke	\$18,000,000
11	Tyler Ennis	PG	22	6-3	194	Syracuse	\$1,733,880
14	Brandon Ingram	SF	19	6-9	190	Duke	\$5,281,680
20	Timofey Mozgov	C	30	7-1	275		\$16,000,000
7	Larry Nance Jr.	PF	24	6-9	230	Wyoming	\$1,207,680
10	David Nwaba	PG	24	6-4	209	Cal Poly	\$73,528
30	Julius Randle	PF	22	6-9	250	Kentucky	\$3,267,120
15	Thomas Robinson	PF	26	6-10	237	Kansas	\$980,431
1	D’Angelo Russell	PG	21	6-5	195	Ohio State	\$5,332,800
37	Metta World Peace	SF	37	6-7	260	St. John’s	\$980,431
0	Nick Young	SG	31	6-7	210	USC	\$5,443,918
40	Ivica Zubac	C	20	7-1	240		\$1,034,956

Source: http://www.espn.com/nba/team/roster/_/name/lal/los-angeles-lakers

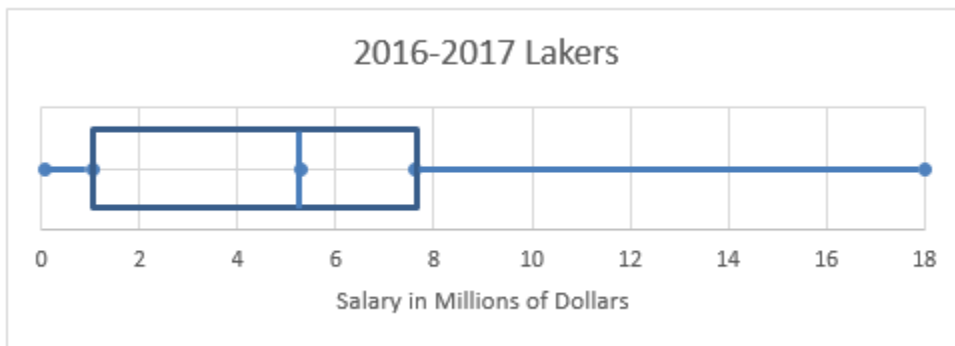
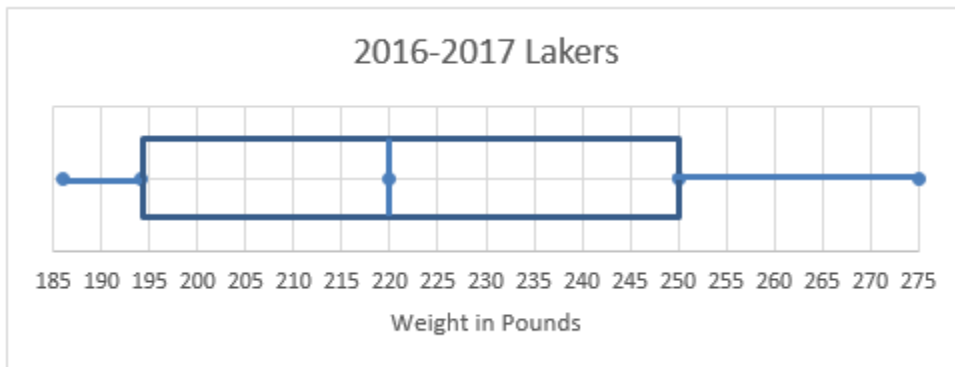
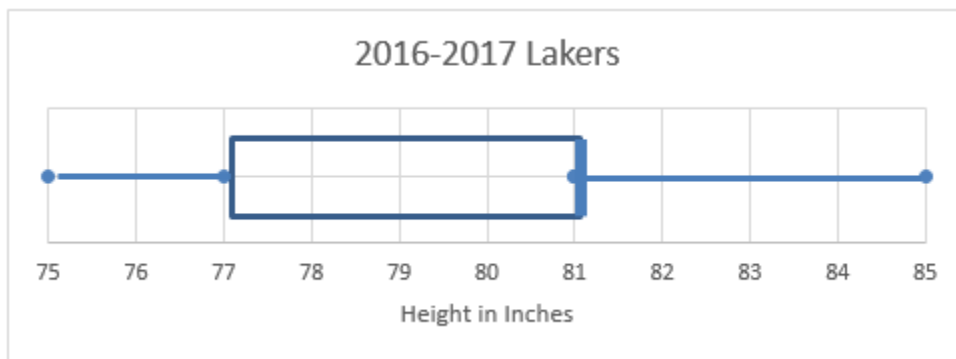
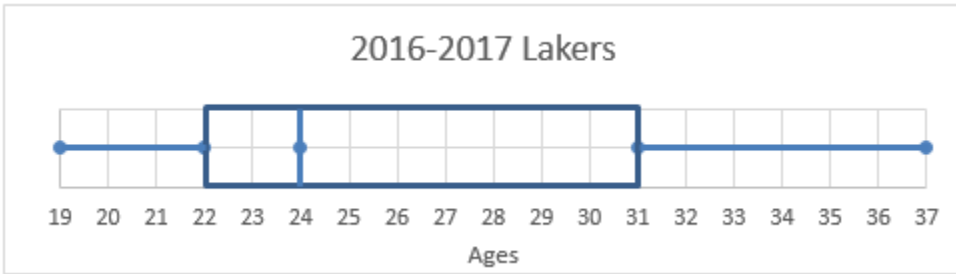
1. Histogram Sample responses given below.



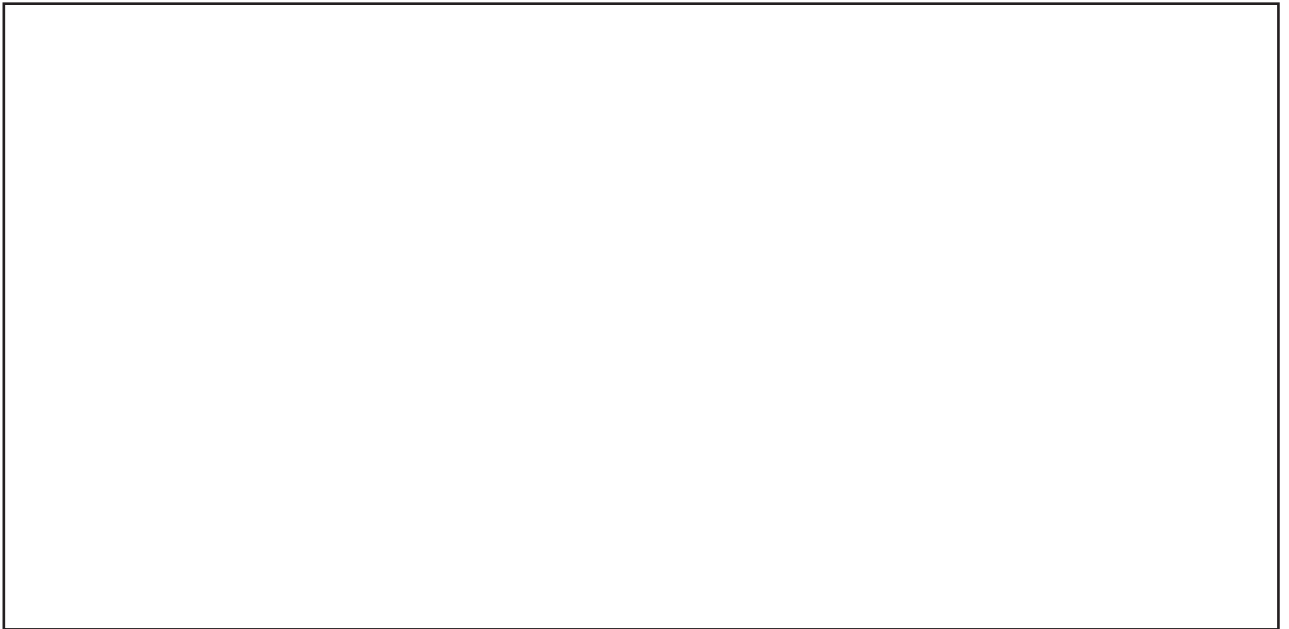
2. Dot Plot Sample responses given below.



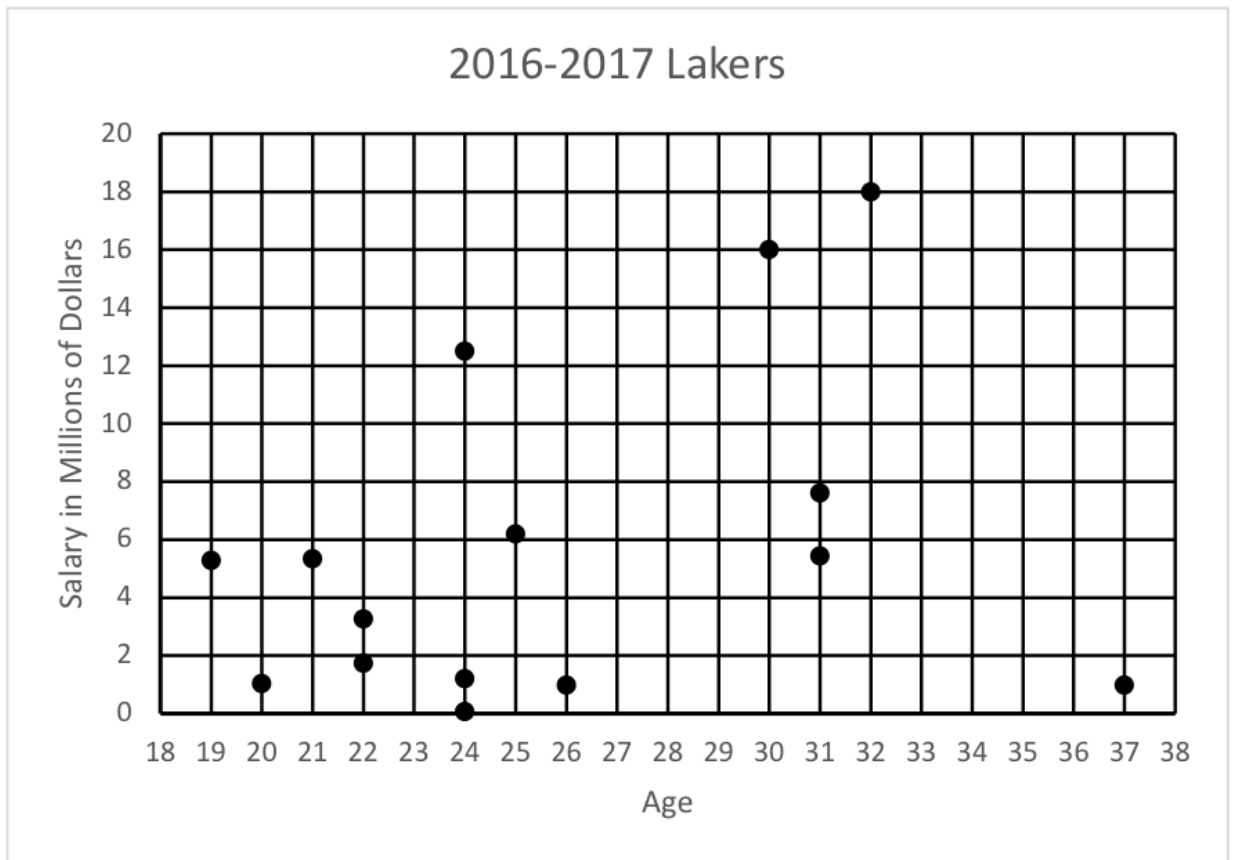
3. Box Plot Sample responses given below.



3. Box Plot



4. Scatterplot



$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

REVIEW—Slope and Writing Equations of Lines

5. Determine the slope between each pair of coordinates.

A. (0, 0) and (2, 3)

$$m = \frac{3-0}{2-0} = \boxed{\frac{3}{2}}$$

B. (0, 0) and (-2, 3)

$$m = \frac{3-0}{-2-0} = \boxed{\frac{3}{-2}}$$

C. (0, 0) and (2, -3)

$$m = \frac{-3-0}{2-0} = \boxed{\frac{-3}{2}}$$

D. (0, 0) and (-2, -3)

$$m = \frac{-3-0}{-2-0} = \frac{-3}{-2} = \boxed{\frac{3}{2}}$$

E. (0, 0) and (0, 3)

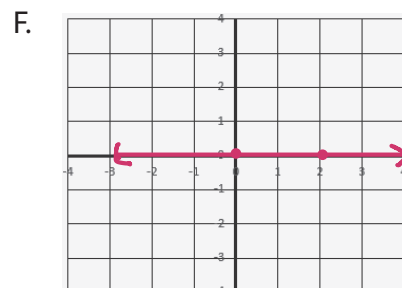
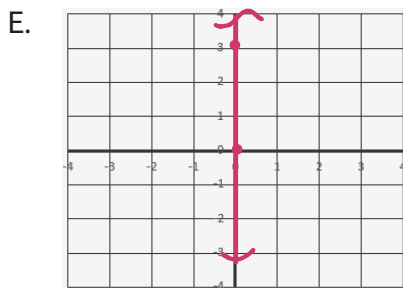
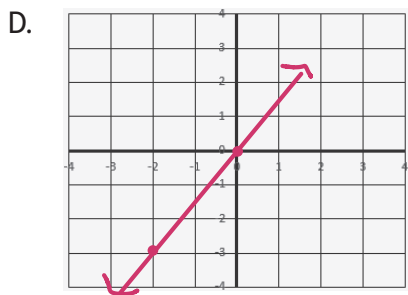
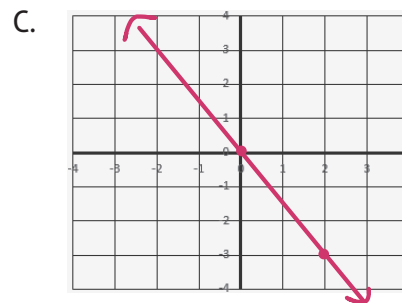
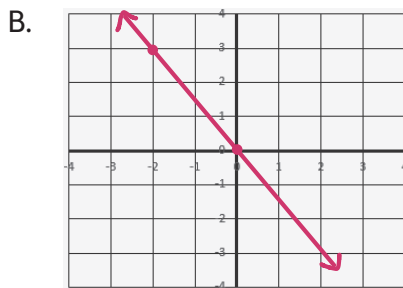
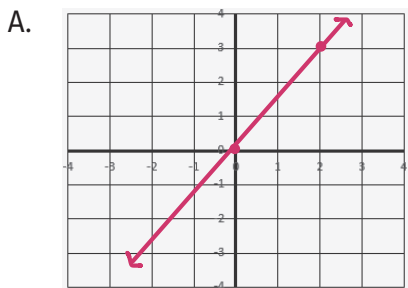
$$m = \frac{3-0}{0-0} = \frac{3}{0}$$

$\boxed{\text{undefined}}$

F. (0, 0) and (2, 0)

$$m = \frac{0-0}{2-0} = \frac{0}{2} = \boxed{0}$$

6. Graph each set of coordinates from Problem 5 and check if the slopes you found were correct.



7. Write the equation of each line for the graphs in Problem 6. Use the formula $y = mx + b$, where m = slope and b = y-intercept.

A. $y = \frac{3}{2}x$ _____

B. $y = -\frac{3}{2}x$ _____

C. $y = -\frac{3}{2}x$ _____

D. $y = \frac{3}{2}x$ _____

E. ~~$y =$~~ $x = 0$ _____

F. $y = 0$ _____