Name: _____ Date: _____

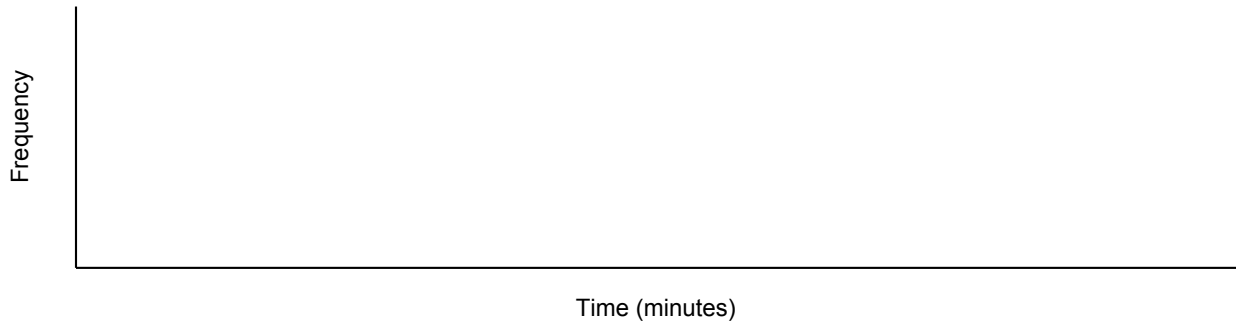
Waiting time set 1

Waiting times have been grouped into equal width classes. Each lower boundary is included; each upper boundary is excluded.

Time (minutes)	Frequency	Relative frequency
10 <= x < 20	2	
20 <= x < 30	6	
30 <= x < 40	14	
40 <= x < 50	6	
50 <= x < 60	2	

(a) Complete the relative frequency column as decimals rounded to four places. State the exact and rounded totals.

(b) Draw a frequency histogram with touching bars. Label both axes.



(c) Describe the shape. Which class contains a waiting time of 30 minutes?

(d) Estimate the mean with class midpoints. Can you recover the exact raw mean or exact median from this table alone?

Waiting time set 2

Waiting times have been grouped into equal width classes. Each lower boundary is included; each upper boundary is excluded.

Time (minutes)	Frequency	Relative frequency
20 <= x < 30	15	
30 <= x < 40	8	
40 <= x < 50	4	
50 <= x < 60	2	
60 <= x < 70	1	

(a) Complete the relative frequency column as decimals rounded to four places. State the exact and rounded totals.

(b) Draw a frequency histogram with touching bars. Label both axes.



(c) Describe the shape. Which class contains a waiting time of 40 minutes?

(d) Estimate the mean with class midpoints. Can you recover the exact raw mean or exact median from this table alone?

Waiting time set 3

Waiting times have been grouped into equal width classes. Each lower boundary is included; each upper boundary is excluded.

Time (minutes)	Frequency	Relative frequency
30 <= x < 40	1	
40 <= x < 50	2	
50 <= x < 60	4	
60 <= x < 70	8	
70 <= x < 80	15	

(a) Complete the relative frequency column as decimals rounded to four places. State the exact and rounded totals.

(b) Draw a frequency histogram with touching bars. Label both axes.



(c) Describe the shape. Which class contains a waiting time of 50 minutes?

(d) Estimate the mean with class midpoints. Can you recover the exact raw mean or exact median from this table alone?