

NAME: _____

UNIT 4 • DESCRIBING DATA

Lesson 1: Working with a Single Measurement Variable

Problem-Based Task 4.1.2: Representing Data Sets

Companies conduct research to learn more about how much money customers will pay for new products or services. A new tutoring service, Favorite Tutors, surveys local college students and professors. Look at the following information from three surveys. Help Favorite Tutors determine how to organize the information from the surveys into graphs. Use the survey information to find the following information for the company:

- an expected number of hours per week professors spend helping students with assignments
- the number of students willing to pay different prices per semester
- the number of different classes for which a single student might need assignment help

Survey 1

- People surveyed: Professors
- Question asked: How many hours per week do you spend helping students with assignments?

Professor	Hours per week
A	8
B	12
C	4
D	4
E	2
F	4
G	12
H	3
I	8
J	6

Survey 2

- People surveyed: College students
- Question asked: How much money would you pay per semester for an unlimited tutoring service?

Amount	Number of students
\$0–\$100	30
\$101–\$200	18
\$201–\$300	15
\$301–\$400	37
\$401–\$500	29

continued

NAME: _____

UNIT 4 • DESCRIBING DATA

Lesson 1: Working with a Single Measurement Variable

Survey 3

- People surveyed: College students
- Question asked: This semester, for how many different classes have you visited a professor for assignment help?

Student	Number of classes
a	2
b	1
c	2
d	0
e	4
f	1
g	2
h	4
i	1
j	2
k	0
l	0
m	3