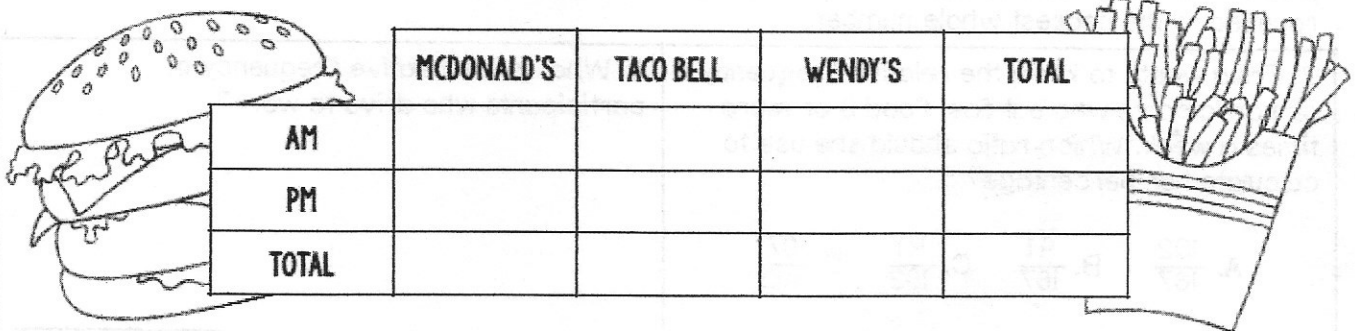Name _____

Date _____ Period _____

WEDNESDAY
Two-Way Tables

A survey was conducted in which participants were asked their preferred time of day between AM or PM and their choice of fast food restaurant between McDonald's (M), Taco Bell (T) and Wendy's (W).

TIME OF DAY	AM	AM	PM	AM	PM	PM	AM	AM	PM	PM	AM	PM	PM	AM
RESTAURANT	M	W	T	M	T	W	T	M	T	M	M	M	T	T

TIME OF DAY	PM	AM	AM	PM	PM	AM	AM	PM	PM	PM	AM	AM	AM	PM
RESTAURANT	W	W	W	W	T	M	M	T	T	T	T	T	M	W

1. Use the results from the survey to complete the two-way table.

	MCDONALD'S	TACO BELL	WENDY'S	TOTAL
AM				
PM				
TOTAL				

2. What was the most popular restaurant choice among participants who prefer the morning?

_____

3. What was the most popular restaurant choice among participants who prefer the evening?

_____

4. How many more participants answered that they prefer McDonald's than Wendy's?

_____

5. What was the least popular restaurant choice among participants who prefer the morning?

_____

Name _____

Date _____ Period _____

THURSDAY
Relative Frequency

Erika wanted to see if there was a relationship between how often someone eats fast food in a week and how the person gets to work each day. She conducted a survey where participants answered how often they eat fast food as well as whether they drive to work or use public transportation.

1. Fill in each blank space of the two-way table.

	DRIVE TO WORK	USE PUBLIC TRANSPORTATION	TOTAL
FAST FOOD 0-2 TIMES/WEEK	35		76
FAST FOOD 3 OR MORE TIMES/WEEK		24	
TOTAL	102		

Use the two-way table to answer each question below. Record relative frequencies as a percent rounded to the nearest whole number.

2. Erika wants to know the relative frequency of participants who eat fast food 3 or more times a week. Which ratio should she use to calculate her percentage? A. $\frac{102}{167}$ B. $\frac{91}{167}$ C. $\frac{91}{102}$ D. $\frac{67}{102}$	3. What is the relative frequency of participants who drive to work? _____
4. Of the people who drive to work, find the relative frequency of those who eat fast food the following number of times: a. 0-2 times per week: _____ b. 3 or more times per week: _____	5. Of the people who use public transportation, find the relative frequency of those who eat fast food the following number of times: a. 0-2 times per week: _____ b. 3 or more times per week: _____
6. Does there seem to be a relationship between how often someone eats fast food in a week and how the person gets to work each day? Explain your reasoning. 	

Name _____

Date _____ Period _____

THURSDAY
Relative Frequency

Students in a high school were asked about their favorite genre of movie. The results are organized in the two-way table below. Complete the missing spaces in the two-way table.

	ACTION	COMEDY	SCIENCE-FICTION	DRAMA	TOTAL
MALE	66	____	____	61	260
FEMALE	____	____	58	70	____
TOTAL	116	121	____	____	500

Use the two-way table to help you match each description on the left with the correct percentage on the right. Each percent is rounded to the nearest whole number.

_____ 7. The relative frequency of people whose favorite movie genre is action.

_____ 8. The relative frequency of female students.

_____ 9. Of the male students, the relative frequency of those whose favorite movie genre is science fiction.

_____ 10. The relative frequency of students whose favorite movie genre is drama.

_____ 11. Of the students whose favorite movie genre is comedy, the relative frequency of female students.

A. 61%

B. 48%

C. 51%

D. 26%

E. 23%

F. 28%

G. 34%