

NAME: _____

HW 10.6

DATE: _____

ALGEBRA

A factory makes three sizes of bookcases. The sizes are small, medium, and large. Each bookcase can be made from pine, oak, or cherry. The two-way table shows some information about the number of bookcases the factory makes in one week.

	Small	Medium	Large	Total
Pine	7		4	23
Oak	10	16		34
Cherry		8	2	13
Total	20	36	14	

1. Finish the table by filling in the blank boxes.
2. How many medium cherry bookcases were made during the week?
3. How many small oak bookcases were made during the week?
4. How many pine bookcases were made during the week?
5. What is the joint relative frequency of medium bookcases made of oak?
6. What is the joint relative frequency of pine bookcases that are large?
7. What is the joint relative frequency of small cherry bookcases?
8. What is the marginal relative frequency of large bookcases?
9. What is the marginal relative frequency of oak bookcases?

A random sample of 100 students was taken. Each student was asked his or her gender and which of the activities they participate in.

	Intramural Basketball	Chess Club	Jazz Band	None of these	Total
Females	20	10			60
Males		2	8	10	40
Total	40		18		100

10. Finish the table by filling in the empty boxes.
11. How many students participate in chess club?
12. How many females were surveyed?
13. What is the joint relative frequency of males participating in basketball?
14. What is the joint relative frequency of jazz band students that are female?
15. What is the marginal relative frequency of males?
16. What is the marginal relative frequency of students participating in none?
17. What is the joint relative frequency of female chess members?
18. What is the joint relative frequency of students not participating that are male?
19. How many male students are in jazz band?
20. What is the joint relative frequency of females who play in jazz band?