Joint Relative, Marginal Relative, & Conditional Relative Frequency Foldable

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Instructions

Print or copy page 3 and 4 double sided.

Place the paper so the examples are face down.

Cut along the dotted lines to create flaps.

Fold the paper in half with the examples inside.

Glue the foldable into notes or on a piece of construction paper.

Go through the foldable with your students.

Joint Relative Frequency

Marginal Relative Frequency

Conditional Relative Frequency

Joint Relative Frequency

The ratio of the frequency in a particular category and the total number of data values.

1) Use the two-way frequency table below to find the joint relative frequency of students surveyed who like football and are male.

Sport / Gender	Football	Basketball	Baseball	Total
Male	24	12	6	42
Female	6	3	9	18
Total	3	15	15	60

2) Use the two-way frequency table below to find the joint relative frequency of students who prefer sugar cookies and are female.

Cookie / Gender	Sugar	Choc Chip	Oatmeal	Total
Male	15	20	5	40
Female	20	30	10	60
Total	35	50	15	100

Marginal Relative Frequency

The ratio of the sum of the joint relative frequency in a row or column and the total number of data values.

1) Use the two-way frequency table below to find the marginal relative frequency of students surveyed who are male.

Sport / Gender	Football	Basketball	Baseball	Total
Male	24	12	6	42
Female	6	3	9	18
Total	3	15	15	60

2) Use the two-way frequency table below to find the marginal relative frequency of students who prefer sugar cookies.

Cookie / Gender	Sugar	Choc Chip	Oatmeal	Total
Male	15	20	5	40
Female	20	30	10	60
Total	35	50	15	100

Conditional Relative Frequency

The ratio of a joint relative frequency and a related marginal relative frequency.

1) Use the two-way frequency table below to find the conditional relative frequency that a student surveyed prefers basketball, given that the student is male.

Sport / Gender	Football	Basketball	Baseball	Total
Male	24	12	6	42
Female	6	3	9	18
Total	3	15	15	60

2) Use the two-way frequency table below to find the conditional relative frequency that a student surveyed is male, given that the student prefers chocolate chip cookies.

Cookie / Gender	Sugar	Choc Chip	Oatmeal	Total
Male	15	20	5	40
Female	20	30	10	60
Total	35	50	15	100

Joint Relative Frequency

Marginal Relative Frequency

Conditional Relative Frequency

Joint Relative Frequency

The ratio of the frequency in a particular category and the total number of data values.

1) Use the two-way frequency table below to find the joint relative frequency of students surveyed who like football and are male.

Sport / Gender	Football	Basketball	Baseball	Total
Male	24	12	6	42
Female	6	3	9	18
Total	3	15	15	60

$\frac{\text{likes football and male}}{\text{total}} = \frac{24}{60} = 0.4 = 40\%$

2) Use the two-way frequency table below to find the joint relative frequency of students who prefer chocolate chip cookies and are female.

Cookie / Gender	Sugar	Choc Chip	Oatmeal	Total
Male	15	20	5	40
Female	20	30	10	60
Total	35	50	15	100

$\frac{\text{female and sugar}}{\text{total}} = \frac{20}{100} = 0.2 = 20\%$

Marginal Relative Frequency

The ratio of the sum of the joint relative frequency in a row or column and the total number of data values.

1) Use the two-way frequency table below to find the marginal relative frequency of students surveyed who are male.

Sport / Gender	Football	Basketball	Baseball	Total
Male	24	12	6	42
Female	6	3	9	18
Total	3	15	15	60

$\frac{\text{male}}{\text{total}} = \frac{42}{60} = 70\%$

2) Use the two-way frequency table below to find the marginal relative frequency of students who prefer sugar cookies.

Cookie / Gender	Sugar	Choc Chip	Oatmeal	Total
Male	15	20	5	40
Female	20	30	10	60
Total	35	50	15	100

$\frac{\text{prefers sugar cookies}}{\text{total}} = \frac{35}{100} = 0.35 = 35\%$

Conditional Relative Frequency

The ratio of a joint relative frequency and a related marginal relative frequency.

1) Use the two-way frequency table below to find the conditional relative frequency that a student surveyed prefers baseball, given that the student is female.

Sport / Gender	Football	Basketball	Baseball	Total
Male	24	12	6	42
Female	6	3	9	18
Total	3	15	15	60

$\frac{\text{prefers baseball}}{\text{total females}} = \frac{9}{18} = 0.5 = 50\%$

2) Use the two-way frequency table below to find the conditional relative frequency that a student surveyed is male, given that the student prefers chocolate chip cookies.

Cookie / Gender	Sugar	Choc Chip	Oatmeal	Total
Male	15	20	5	40
Female	20	30	10	60
Total	35	50	15	100

$\frac{\text{prefers oatmeal cookies}}{\text{total males}} = \frac{20}{50} = 0.4 = 40\%$