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Chapter 11 - Probability
| $\subset=-=-=-=$
Date: $\qquad$ Per: $\qquad$ A ,

Use the following two-way frequency table to answer the following questions:

|  | 0 Times Per Week | 1-2 Times Per Week | 3+ Times Per Week | Total |
| :---: | :---: | :---: | :---: | :---: |
| Male | 62 | 37 | 55 | 154 |
| Female | 73 | 89 | 33 | 195 |
| Total | 135 | 126 | 88 | 349 |

Find the probability that a person who is randomly selected..
a.) is a male?
b.) is a female?
c.) exercises 1-2 times per week?
d.) exercises 3+ times per week?
e.) exercises 0-2 times per week?
f.) is a male that exercises 0 times/week?
g.) What is the probability that a randomly selected female exercises $3+$ times per week?
h.) What is the probability that a randomly selected female exercises 1-2 times per week?
i.) What is the probability that a randomly selected person that exercises 0 times per week is a male?

Use the following two-way frequency table to answer the following questions:

|  | Democrat | Republican | Independent | Total |
| :---: | :---: | :---: | :---: | :---: |
| Support the Bill | 48 | 28 | 24 | 100 |
| Against the Bill | 25 | 59 | 33 | 117 |
| Undecided | 52 | 12 | 51 | 115 |
| Total | 125 | 99 | 108 | 332 |

Find the probability that a person who is randomly selected...
a.) is a Democrat?
b.) is a Republican?
c.) is an Independent?
d.) supports the bill?
e.) is against the bill?
f.) is undecided?
g.) What is the probability that a randomly selected person is a democrat who supports the bill?
h.) What is the probability that a randomly selected Republican is against the bill?
i.) What is the probability that a randomly selected person that is undecided is a Democrat?
j.) What is the probability that a randomly selected person that supports the bill is an independent?

## Use the following two-way frequency table to answer the following questions:

The chart below displays the vacation choices of 60 British students:

|  | France | Germany | Spain | Total |
| :---: | :---: | :---: | :---: | :---: |
| Male | 2 | 23 | 9 | 34 |
| Female | 15 | 2 | 9 | 26 |
| Total | 17 | 25 | 18 | 60 |

Find the probability that a person who is randomly selected...
a.) is a male?
b.) is a female?
c.) visited France?
d.) Visited Germany?
e.) Visited France OR Germany?
f.) is a female that visited France?
g.) What is the probability that a randomly selected female visited Spain?
h.) What is the probability that a randomly selected male visited France?
i.) What is the probability that a randomly selected person that visited Germany is a male?

## Use the following two-way frequency table to answer the following questions:

The chart below displays the type of music 100 adults prefer to listen to:

|  | Jazz | Rock | Classical | Folk | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Male | 12 | 17 | 19 | 4 | 52 |
| Female | 9 | 23 | 9 | 7 | 48 |
| Total | 21 | 40 | 28 | 11 | 100 |

Find the probability that a person who is randomly selected...
a.) is a male?
b.) is a female?
c.) Likes Folk?
d.) Likes Jazz?
e.) Likes Rock?
f.) Likes Classical?
g.) What is the probability that a randomly selected female likes Rock?
h.) What is the probability that a randomly selected male likes Folk?
i.) What is the probability that a randomly selected person that likes jazz is a female?

