## Name:

Date:
7.2: Interpret and calculate probabilities from a table or Venn Diagram

1. The table below shows the number of students who eat breakfast in two different age groups:

|  | Passed the test | Didn't pass the test | Total |
| :---: | :---: | :---: | :---: |
| Went to office <br> hours | 28 | 4 | $(32$ |
| Did not go to <br> office hours | 20 | 18 | 38 |
| Total | 48 | 22 | 70 |

Answer the following based on the table above:
a) What is the probability of a person going to office hours?

b) What is the probability of a person NOT passing a test?

c) GIVEN that a person goes to office hours, what is the probability that they pass the test?

d) GIVEN that a person passes a test, what is the proability that they go to office hours?

5. In the Venn Diagram below, the sports that people like to watch are shown. A total of 135 students were surveyed.

a) What is the probability that a person chosen at random likes to watch both basketball and football?

b) What is the probability that a person chosen at random likes to watch ONLY football?

c) What is the probability that a person likes to watch football (this is different from b))

d) Given that a person likes to watch basketball, what is the probability that they do NOT like to watch football?


