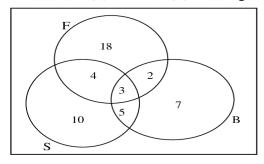
## Venn Diagrams Worksheet PMath 12

1. Three of the top Canadian paid-circulation magazines are Reader's Digest, Chatelaine, and MacLean's. A market survey has estimated the probability of a household subscribing to these magazines:

| Subscription                 | Probability |
|------------------------------|-------------|
| Reader's Digest              | 0.6         |
| Chatelaine                   | 0.5         |
| MacLean's                    | 0.4         |
| Reader's Digest & Chatelaine | 0.2         |
| Reader's Digest & MacLean's  | 0.25        |
| Chatelaine & MacLean's       | 0.15        |
| All three                    | 0.05        |

What is the probability that a household chosen at random

- a) subscribes to only Reader's Digest?
- b) subscribes to neither Chatelaine nor MacLean's?
- c) subscribes to one magazine only?
- 2. A group of 60 students were asked if they played fieldhockey (F), basketball (B) or soccer (S). The diagram below displays the results.



What percent of the group play:

- a) field hockey & basketball?b) field hockey or basketball?
- c) field hockey & soccer?
- d) neither of the three sports?
- e) only 1 sport?