

Do Now: Probability exam problems

1. [6 marks]

Celeste wishes to hire a taxicab from a company which has a large number of taxicabs.

The taxicabs are randomly assigned by the company.

The probability that a taxicab is yellow is 0.4.

The probability that a taxicab is a Fiat is 0.3.

The probability that a taxicab is yellow or a Fiat is 0.6.

Find the probability that the taxicab hired by Celeste is **not** a yellow Fiat.

2a. [2 marks]

Let A and B be independent events, where $P(A) = 0.3$ and $P(B) = 0.6$.

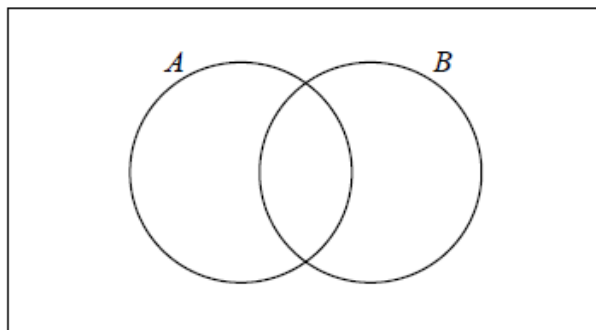
Find $P(A \cap B)$.

2b. [2 marks]

Find $P(A \cup B)$.

2c. [1 mark]

On the following Venn diagram, shade the region that represents $A \cap B'$.



2d. [2 marks]

Find $P(A \cap B')$.