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#### **Chapter 4: Probability Concepts**

### 4.1-4.3: Probability Basics; Events; Some Rules of Probability

#### Terms to know:

- The probability of an event is the of the event occurring.
- · A probability experiment is a that leads to well-defined results called outcomes.
- The sample space is the set of all of a probability experiment.

#### Examples:

1. Experiment Sample Space

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- (a) flip a coin
- (b) roll a die
- (c) flip 2 coins

(a)

2. Find the sample space for drawing one card from a standard deck.



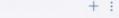




(a)

(b)

(c)





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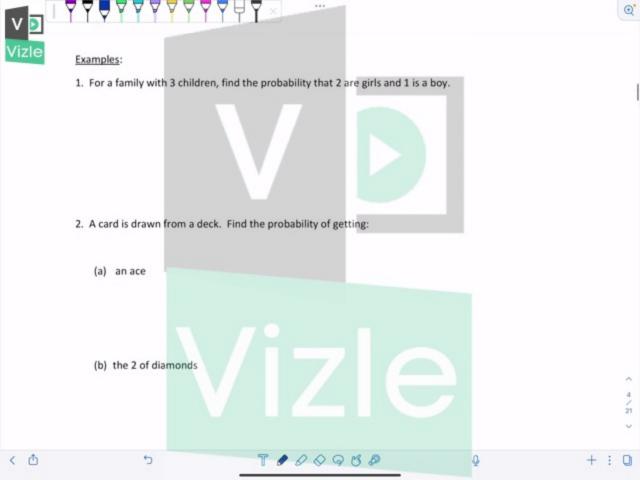
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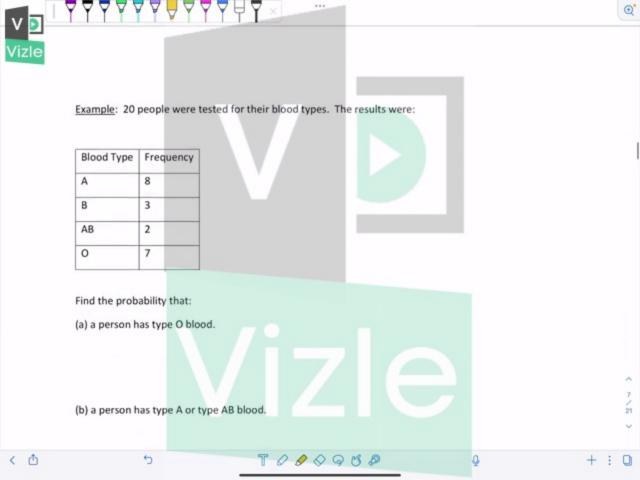
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## Examples:

- 1. A single card is drawn from a standard deck. Find the probability of selecting the following.
- (a) A 4 or a diamond

= 
$$P(4) + P(diamond) - P(4 and diamond)$$

$$=\frac{4}{52}+\frac{13}{52}-\frac{1}{52}$$

(b) A jack or a black card

Which event is more likely to occur? Explain.

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2. A local postal carrier distributes first-class letters, advertisements, and magazines. For a certain day, she distributed the following numbers of each type of item. (The information has been organized into the contingency table below.)

Delivered to	First-class letters	Ads	Magazines	



Home

































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