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Activity 2 Questions

1. A deck may have several cards, and a card may belong to several decks. Therefore, they share a many-to-many relationship. Decks store an array of cards, in this case in an ArrayList.
2. Each suit contains 3 cards (with the ranks jack, queen, and king and the point values 11, 12, 13, respectively), and there are 2 suits (blue and red). Therefore there are 2\*3, or 6 total cards contained in the deck.
3. The ranks and pointValues would have to match by subscripts, and therefore would be exactly ranks={Ace, King, Queen, Jack, 10, 9, 8, 7, 6, 5, 4, 3, 2} and pointValues={11, 10, 10, 10, 10, 9, 8, 7, 6, 5, 4, 3, 2}. The suits would then be suits={Spades, Hearts, Diamonds, Clubs}.
4. Yes, the order of elements of the ranks, suits, and pointValues arrays does matter. These orders define attributes and match elements together. For example, in a standard deck object, the arrays would have to have Ace and 1 match indexes, and 2 and 2, and Jack and 11, etc.