There are 13 values (2 – Ace). Each value has four suits: hearts, diamonds (which are red cards), and clubs, spades (which are black cards), for a total of 52 cards. The cards are further classified as follows:

Low: 2 – 9        Number: 2 – 10        Face: J, Q, K
High: 10, J, Q, K, A     Letter: J, Q, K, A
Four Suits: Hearts, Diamonds (Red)    Spades, Clubs (Black)

For each part, label descriptive sets, show the cardinalities on a complete Block Diagram, then write the described set in set notation and give its cardinality.

(a) a Black card or a Number card

(b) a Face card or a Red card but not both

(c) neither a Letter card nor a Heart
(d) a High card but not a Face Card

(e) a Letter Card or a non-Club

(f) not a Red Face card

(h) a Low Diamond