03-1-M-31

Which is an example of a mixture of compounds and elements?

(A) Salt solution.

(B) Distilled water and chalk.

(C) Carbon dioxide and water vapour.

(D) Air

03-1-M-32

Steel is a mixture containing iron and carbon. When the content of carbon in steel is increased, we expect steel to be _____.

(A) more malleable and ductile than iron

(B) more flexible and elastic than iron

(C) harder but not stronger than iron

(D) harder but more brittle than iron

03-1-M-33

The elements in the Periodic Table change from metallic to non-metallic. What is the name given to the elements in between _____.

(A) compound

(B) metals

(C) non metals

(D) transitions metals

03-1-M-34

Iron sulphide is a/an _____.

(A) mixture

(B) element

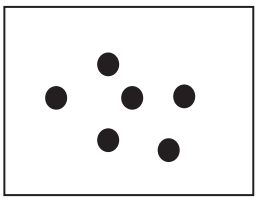
(C) compound

(D) gas

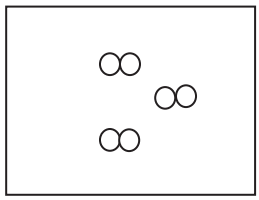
03-1-M-35

Identify the picture(s) below that represent pure elements.

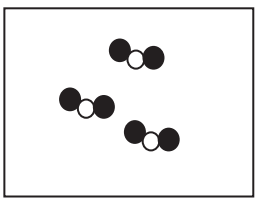
(I)



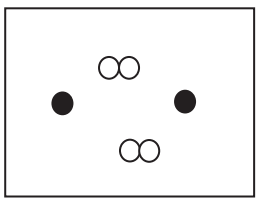
(II)



(III)



(IV)



(A) (I) and (IV)

(B) (I) and (II)

(C) (I), (II) and (III)

(D) (I), (II), (III) and (IV)

03-1-M-36

Which of the following differentiate a compound from a mixture?

(I) Different elements in a compound are joined by a fixed amount while those in a mixture can be of any amount.

(II) A compound can be separated into its elements by physical methods while a mixture by chemical methods.

(III) The properties of a compound are different from its constituent elements while a mixture is the same.

(A) (I) only

(B) (II) only

(C) (I) and (III)

(D) (I), (II) and (III)

03-1-M-37

Which of the following element is the lightest?

(A) He

(B) Na

(C) Zn

(D) Li