Set Notation

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Describe these sets in words.

(a) {4, 8, 12, 16, 20, 24, 28}

(b) {1, 4, 9, 16, 25}

(c) {Europe, Asia, Africa,…}

(d) {1, 2, 3, 4, 6, 12}

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List the elements of the sets:

(a) Multiples of 7 less than 30

(b) Months of the year

(c) Factors of 25

$A = \{factors\ of\ 6\}$

$B = \{prime\ numbers\ less\ than\ 20\}$

$C = \{integers\ from\ 1\ to\ 10\}$

(a) List the elements of A

(b) List the elements of B

(c) List the elements of C

(d) Write down $A \cup B$

(e) Write down $B \cup C$

(f) Write down $A \cap B$

(g) Write down $C \cap A$

$A = \{factors\ of\ 6\}$

$B = \{prime\ numbers\ less\ than\ 20\}$

$C = \{integers\ from\ 1\ to\ 10\}$

State whether the following are true or false?

(h) $9 \in C$ (i) $9 \in B$

(j) $9 \in A$ (k) $6 \notin C$

(l) $19 \in B$ (m) $1 \notin C$