Sets and set notation

Examples

a) A particular set consists of the following elements:

[South Africa, Namibia, Egypt, Angola, ...]

i) Describe the set.

The elements of the set are countries of Africa.

ii) Add another two elements to the set.

e.g. Zimbabwe, Ghana

iii) Is the set finite or infinite?

Finite. There is a finite number of countries in Africa.

b) Consider the set

[1, 4, 9, 16, 25, ...]

i) Describe the set.

The elements of the set are square numbers.

ii) Write another two elements of the set.

e.g. 36, 49

iii) Is the set finite or infinite?

Infinite. There is an infinite number of square numbers.

Exercises

1. In the following questions:

i) describe the set in words,
ii) write down another two elements of the set.

a) {Asia, Africa, Europe, ...}
b) {2, 4, 6, 8, ...}
c) {Sunday, Monday, Tuesday, ...}
d) {January, March, July, ...}
e) {1, 3, 6, 10, ...}
f) {Mohnot, Michael, Mustapha, Matthew, ...}
g) {11, 13, 17, 19, ...}
h) {a, e, i, ...}
i) {Earth, Mars, Venus, ...}
j) $A = \{x : 3 \leq x \leq 12\}$
k) $B = \{y : -5 \leq y < 5\}$

2. The number of elements in a set A is written as $n(A)$.
Give the value of $n(A)$ for the finite sets in Q.1a–k above.

Subsets

Worked example $A = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

i) List subset B [even numbers].

$B = \{2, 4, 6, 8, 10\}$

ii) List subset C [prime numbers].

$C = \{2, 3, 5, 7\}$

Exercises

3. P = {whole numbers less than 20}
a) List the subset: Q [even numbers].
b) List the subset: R [odd numbers].
c) List the subset: S [prime numbers].
d) List the subset: T [square numbers].
e) List the subset: U [triangle numbers].

4. A = {whole numbers between 50 and 70}
a) List the subset: B [multiples of 5].
b) List the subset: C [multiples of 3].
c) List the subset: D [square numbers].

5. $J = \{p, q, r\}$
a) List all the subsets of J.
b) List all the proper subsets of J.

6. State whether each of the following statements is true or false:
a) {Nigeria, Mozambique} $\subseteq$ {countries in Africa}
b) {mango, banana} $\subset$ {fruit}
c) $\{1, 2, 3, 4\} \subseteq \{1, 2, 3, 4\}$
d) $\{1, 2, 3, 4\} \subset \{1, 2, 3, 4\}$
e) {volleyball, basketball} $\not\subseteq$ {team sport}
f) $\{4, 6, 8, 10\} \not\subset \{4, 6, 8, 10\}$
g) {potatoes, carrots} $\subseteq$ {vegetables}
h) $\{12, 13, 14, 15\} \not\subset$ {whole numbers}

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