Assignment 12

Due on 2021-04-14, 23:59:07.

For numerical answers with at least 3 decimal places, round to that accuracy on your answer sheet.

Click here to view the Handout

How many entries must the $C$-table have in section 4.12.1.

$A = \{1, 2, 3\}$,

$B = \{a, b, c\}$

(a) How many entries must the $C$-table have if $C = AB$?

(b) How many entries must the $C$-table have if $C = A^3$?

(c) How many entries must the $C$-table have if $C = A^4$?

(d) How many entries must the $C$-table have if $C = A^5$?

(e) How many entries must the $C$-table have if $C = A^6$?

(f) How many entries must the $C$-table have if $C = A^7$?

(g) How many entries must the $C$-table have if $C = A^8$?

(h) How many entries must the $C$-table have if $C = A^9$?

(i) How many entries must the $C$-table have if $C = A^{10}$?

(j) How many entries must the $C$-table have if $C = A^{11}$?

(k) How many entries must the $C$-table have if $C = A^{12}$?

(l) How many entries must the $C$-table have if $C = A^{13}$?

(m) How many entries must the $C$-table have if $C = A^{14}$?

(n) How many entries must the $C$-table have if $C = A^{15}$?

(o) How many entries must the $C$-table have if $C = A^{16}$?

(p) How many entries must the $C$-table have if $C = A^{17}$?

(q) How many entries must the $C$-table have if $C = A^{18}$?

(r) How many entries must the $C$-table have if $C = A^{19}$?

(s) How many entries must the $C$-table have if $C = A^{20}$?

(t) How many entries must the $C$-table have if $C = A^{21}$?

(u) How many entries must the $C$-table have if $C = A^{22}$?

(v) How many entries must the $C$-table have if $C = A^{23}$?

(w) How many entries must the $C$-table have if $C = A^{24}$?

(x) How many entries must the $C$-table have if $C = A^{25}$?

(y) How many entries must the $C$-table have if $C = A^{26}$?

(z) How many entries must the $C$-table have if $C = A^{27}$?

{...}

2. $A = \{1, 2, 3\}$, $B = \{a, b, c\}$

(a) How many entries must the $C$-table have if $C = \bar{A} \cdot \bar{B}$?

(b) How many entries must the $C$-table have if $C = A \cdot \bar{B}$?

(c) How many entries must the $C$-table have if $C = \bar{A} \cdot B$?

(d) How many entries must the $C$-table have if $C = A \cdot B$?

(e) How many entries must the $C$-table have if $C = \bar{A} \cdot \bar{B}$?

(f) How many entries must the $C$-table have if $C = A \cdot \bar{B}$?

(g) How many entries must the $C$-table have if $C = \bar{A} \cdot B$?

(h) How many entries must the $C$-table have if $C = A \cdot B$?

(i) How many entries must the $C$-table have if $C = \bar{A} \cdot \bar{B}$?

(j) How many entries must the $C$-table have if $C = A \cdot \bar{B}$?

(k) How many entries must the $C$-table have if $C = \bar{A} \cdot B$?

(l) How many entries must the $C$-table have if $C = A \cdot B$?

(m) How many entries must the $C$-table have if $C = \bar{A} \cdot \bar{B}$?

(n) How many entries must the $C$-table have if $C = A \cdot \bar{B}$?

(o) How many entries must the $C$-table have if $C = \bar{A} \cdot B$?

(p) How many entries must the $C$-table have if $C = A \cdot B$?

(q) How many entries must the $C$-table have if $C = \bar{A} \cdot \bar{B}$?

(r) How many entries must the $C$-table have if $C = A \cdot \bar{B}$?

(s) How many entries must the $C$-table have if $C = \bar{A} \cdot B$?

(t) How many entries must the $C$-table have if $C = A \cdot B$?

(u) How many entries must the $C$-table have if $C = \bar{A} \cdot \bar{B}$?

(v) How many entries must the $C$-table have if $C = A \cdot \bar{B}$?

(w) How many entries must the $C$-table have if $C = \bar{A} \cdot B$?

(x) How many entries must the $C$-table have if $C = A \cdot B$?

(y) How many entries must the $C$-table have if $C = \bar{A} \cdot \bar{B}$?

(z) How many entries must the $C$-table have if $C = A \cdot \bar{B}$?

{...}

3. $A = \{1, 2, 3\}$, $B = \{a, b, c\}$

(a) How many entries must the $C$-table have if $C = A \cdot B$?

(b) How many entries must the $C$-table have if $C = A \cdot B$?

(c) How many entries must the $C$-table have if $C = A \cdot B$?

(d) How many entries must the $C$-table have if $C = A \cdot B$?

(e) How many entries must the $C$-table have if $C = A \cdot B$?

(f) How many entries must the $C$-table have if $C = A \cdot B$?

(g) How many entries must the $C$-table have if $C = A \cdot B$?

(h) How many entries must the $C$-table have if $C = A \cdot B$?

(i) How many entries must the $C$-table have if $C = A \cdot B$?

(j) How many entries must the $C$-table have if $C = A \cdot B$?

(k) How many entries must the $C$-table have if $C = A \cdot B$?

(l) How many entries must the $C$-table have if $C = A \cdot B$?

(m) How many entries must the $C$-table have if $C = A \cdot B$?

(n) How many entries must the $C$-table have if $C = A \cdot B$?

(o) How many entries must the $C$-table have if $C = A \cdot B$?

(p) How many entries must the $C$-table have if $C = A \cdot B$?

(q) How many entries must the $C$-table have if $C = A \cdot B$?

(r) How many entries must the $C$-table have if $C = A \cdot B$?

(s) How many entries must the $C$-table have if $C = A \cdot B$?

(t) How many entries must the $C$-table have if $C = A \cdot B$?

(u) How many entries must the $C$-table have if $C = A \cdot B$?

(v) How many entries must the $C$-table have if $C = A \cdot B$?

(w) How many entries must the $C$-table have if $C = A \cdot B$?

(x) How many entries must the $C$-table have if $C = A \cdot B$?

(y) How many entries must the $C$-table have if $C = A \cdot B$?

(z) How many entries must the $C$-table have if $C = A \cdot B$?

{...}

4. $A = \{1, 2, 3\}$, $B = \{a, b, c\}$

(a) How many entries must the $C$-table have if $C = A \cdot B$?

(b) How many entries must the $C$-table have if $C = A \cdot B$?

(c) How many entries must the $C$-table have if $C = A \cdot B$?

(d) How many entries must the $C$-table have if $C = A \cdot B$?

(e) How many entries must the $C$-table have if $C = A \cdot B$?

(f) How many entries must the $C$-table have if $C = A \cdot B$?

(g) How many entries must the $C$-table have if $C = A \cdot B$?

(h) How many entries must the $C$-table have if $C = A \cdot B$?

(i) How many entries must the $C$-table have if $C = A \cdot B$?

(j) How many entries must the $C$-table have if $C = A \cdot B$?

(k) How many entries must the $C$-table have if $C = A \cdot B$?

(l) How many entries must the $C$-table have if $C = A \cdot B$?

(m) How many entries must the $C$-table have if $C = A \cdot B$?

(n) How many entries must the $C$-table have if $C = A \cdot B$?

(o) How many entries must the $C$-table have if $C = A \cdot B$?

(p) How many entries must the $C$-table have if $C = A \cdot B$?

(q) How many entries must the $C$-table have if $C = A \cdot B$?

(r) How many entries must the $C$-table have if $C = A \cdot B$?

(s) How many entries must the $C$-table have if $C = A \cdot B$?

(t) How many entries must the $C$-table have if $C = A \cdot B$?

(u) How many entries must the $C$-table have if $C = A \cdot B$?

(v) How many entries must the $C$-table have if $C = A \cdot B$?

(w) How many entries must the $C$-table have if $C = A \cdot B$?

(x) How many entries must the $C$-table have if $C = A \cdot B$?

(y) How many entries must the $C$-table have if $C = A \cdot B$?

(z) How many entries must the $C$-table have if $C = A \cdot B$?

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