

Problem 8b.

Let $A = \{c, d, f, g\}$ $B = \{f, j\}$ and $C = \{d, g\}$.

Give reasons for your answers.

Is $C \subseteq A$?

Yes, C is contained in A since every element in C is also an element of A .

Problem 12a.

Let $S = \{2, 4, 6\}$ and $T = \{1, 3, 5\}$.

Use the set-roster notation to write each of the following sets and indicate the number of elements that are in each set.

$$S \times T = \{(2, 1), (4, 1), (6, 1), (2, 3), (4, 3), (6, 3), (2, 5), (4, 5), (6, 5)\}$$

$S \times T$ has 9 elements