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SEC 4 ELEMENTARY MATHEMATICS (BONUS)

UNIT 1: SETS

1.7 COMBINED OPERATIONS ON SETS

1.7 EXERCISE

QUESTION 1

Given that:

$$\xi = \{x : x \text{ is an integer and } 1 \leq x \leq 10\}$$

$$A = \{x : x \text{ is a factor of } 10\}$$

$$B = \{x : x \text{ is a prime number}\}$$

- Write down $n(A \cap B)$.
- List the elements of $(A \cup B)'$.

QUESTION 7

It is given that $\varepsilon = \{x : x \text{ is a whole number and } 0 < x < 13\}$, $P = \{x : x \text{ is a multiple of } 6\}$ and $Q = \{x : x \text{ is an even number}\}$.

- List the elements of Q .
- Draw a clearly labelled Venn diagram to illustrate the information.
- Copy the Venn diagram in (b) and shade the region that represents $P \cup Q'$.
- Find the number of elements in $P \cup Q'$.

QUESTION 14

Describe the shaded region in set notation.

