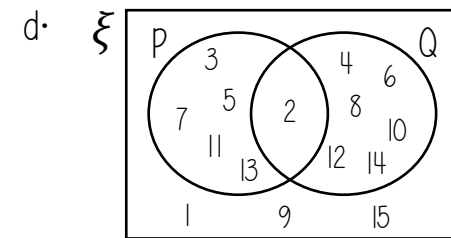
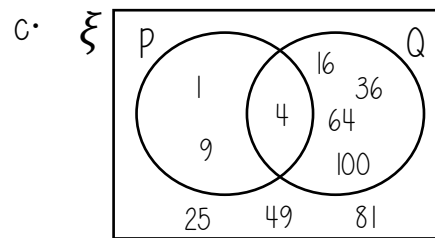
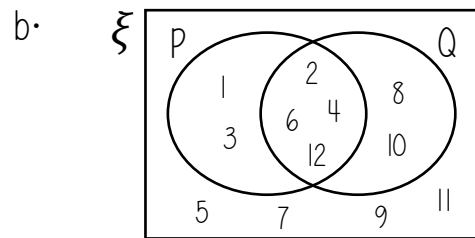
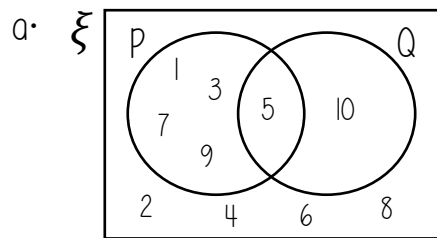


1. For each Venn diagram, describe the sets: ξ , P and Q



2. Given the sets, can you place the members into a Venn diagram

- a.
 $\xi = \{10, 11, 12, 13, 14, 15, 16\}$
 $P = \{12, 14, 16\}$
 $Q = \{10, 11, 12, 16\}$

- b.
 $\xi = \{\text{integers from 15 to 21, inclusive}\}$
 $X = \{15, 18, 21\}$
 $Y = \{16, 18, 20\}$

- c.
 $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
 $E = \{\text{even numbers}\}$
 $F = \{\text{factors of 10}\}$

- d.
 $\xi = \{a, b, c, d, e, f, g, h, i, j\}$
 $A = \{a, e, i\}$
 $B = \{a, c, e, g, i\}$

- e.
 $\xi = \{\text{integers from 1 to 12, inclusive}\}$
 $M = \{\text{multiples of 2}\}$
 $N = \{\text{numbers less than or equal to 5}\}$

- f.
 $\xi = \{C, F, G, H, I, N, S, T, X\}$
 $L = \{\text{letters with lines of symmetry}\}$
 $R = \{\text{letter with rotational symmetry of order 2}\}$

3. Write down the members of each set

- a.
 $P = \{11, 13, 15, 17\}$
 $Q = \{12, 14, 16\}$
 $R = \{4, 8, 12, 16\}$

- b.
 $F = \{m, i, l, a, n\}$
 $G = \{t, u, r, i, n\}$
 $H = \{r, o, m, e\}$

- c.
 $X = \{\text{Odd numbers less than 10}\}$
 $Y = \{3, 6, 9, 12, 15, 18, 21\}$
 $Z = \{2, 3, 5, 7, 9, 11, 13, 17, 19\}$

- d.
 $A = \{\text{multiples of 3 less than 17}\}$
 $B = \{\text{multiples of 2 less than 17}\}$
 $C = \{\text{multiples of 5 less than 17}\}$

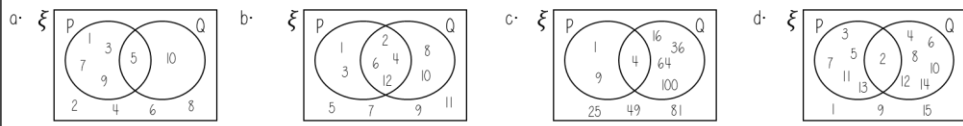
- (i) $Q \cup R$
(ii) $P \cup Q$
(iii) $Q \cap R$

- (i) $G \cap H$
(ii) $F \cup H$
(iii) $G \cup F$

- (i) $X \cup Z$
(ii) $Y \cap Z$
(iii) $X \cap Y \cap Z$

- (i) $A \cup C$
(ii) $A \cap B$
(iii) $B \cap C$

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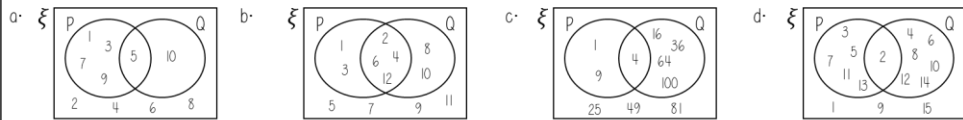
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(ii) P U Q
(iii) Q ∩ R
- (i) G ∩ H
(ii) F U H
(iii) G U F
- (i) X U Z
(ii) Y ∩ Z
(iii) X ∩ Y ∩ Z
- (i) A U C
(ii) A ∩ B
(iii) B ∩ C

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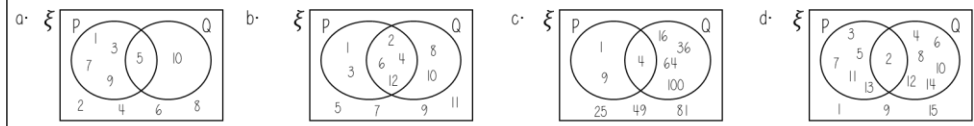
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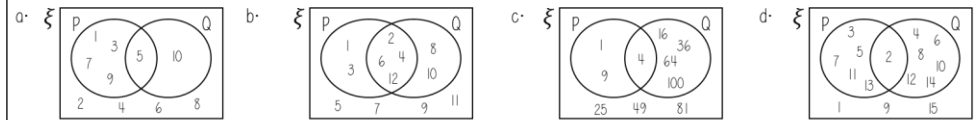
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