Maths

Mrs Dennett

1. Here is a Venn Diagram.

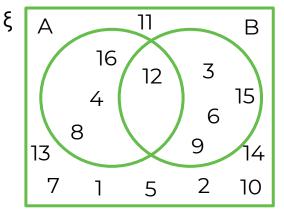
ξ

Shade the section of the diagram represented by A U B.

- 2. **ξ** = {1 to 24 inclusive}
 - A = { Odd numbers }
 - B = { Factors of 24 }

a) Show the information in a Venn diagram.b) List the members of set A U B.

3. Here is a Venn diagram.

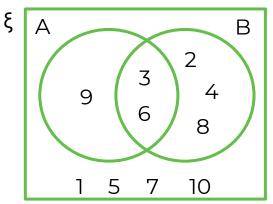


a) List the members of set B

b) List the members of set A \cap B

c) List the members of set A U B

4. Here is a Venn diagram.



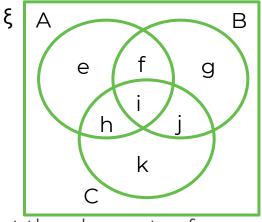
Which of the statements are incorrect? Explain your reasoning.

Set A only has the number 9

A U B only has the numbers 2, 4, 8 and 9

A \cap B only has the numbers 3 and 6

5. Here is a Venn diagram.

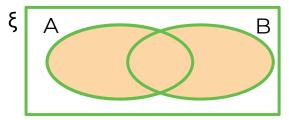


List the elements of

- a) AUB
- b) $A \cap B \cap C$
 - c) Which element(s) would be in set (A U B) \cap C?

Answers

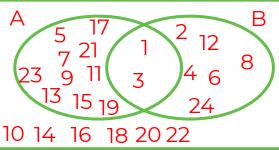
1. Here is a Venn Diagram.



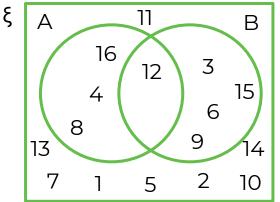
Shade the section of the diagram represented by A U B.

2. a) Show the information in a Venn

diagram.[§]



3. Here is a Venn diagram.



a) List the members of set BB = {3, 6, 9, 12, 15}
b) List the members of set A ∩ B A ∩ B = {12}
c) List the members of set A ∪ B A ∪ B = {3, 4, 6, 8, 9, 12, 15, 16}

b) List the members of set A U BA U B = {1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 15, 17, 19, 21, 23, 24}

4. Here is a Venn diagram.

5. Here is a Venn diagram.

Which of the statements are incorrect? Explain your reasoning.

> Set A only has the number 9. Incorrect A = { 3, 6, 9 }

A U B only has the numbers 2, 4, 8 and 9 Incorrect AUB = { 2, 3, 4, 6, 8, 9 }

A \cap B only has the numbers 3 and 6

Correct

List the elements of:

a) A U B { e, f, g, h, i, j }

c) Which element(s) would be in set

(A U B) ∩ C? { h, i, j }

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