

Instant
Replay

- If you have any difficulty with these solutions, please contact your teacher before continuing.

1. a. **There are many ways to word this solution. Contact your teacher to confirm that your answer is correct.**

Possible Solution: M is the set of whole numbers greater than or equal to 1 and less than or equal to 8.

Possible Solution: M is the set of digits not equal to 0 or 9.

- b. **Answers will vary in appearance for this solution because sets are unordered. Contact your teacher to confirm that your answer is correct.**

Possible Solution: $M = \{1, 2, 3, 4, 5, 6, 7, 8\}$

- c. **Answers will vary in appearance for this solution. Contact your teacher to confirm that your answer is correct.**

Possible Solution: $M = \{x \mid 1 \leq x \leq 8, x \in W\}$

Possible Solution: $M = \{x \mid x \text{ is a digit not equal to 0 or 9}\}$

2. **There are many examples possible for this solution. Contact your teacher to confirm that your example is correct.**

When referencing set notation, $\{ \}$ represents the empty set, which is a set that has no elements.

Possible example: An empty set is the set of all spiders that are cats.

3. Sets A and B are equivalent because they both have a cardinality of 4. In other words, sets A and B have the same number of elements.
4. Sets D and E are equal because they contain the same elements. That the elements are not listed in the same order does not matter.